

# TOWN OF BASSENDEAN

## MINUTES

### RIVER PARKS COMMITTEE

HELD IN THE COUNCIL CHAMBER, 48 OLD PERTH ROAD, BASSENDEAN  
ON TUESDAY 6 FEBRUARY 2018, AT 3.00PM

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#### 1.0 DECLARATION OF OPENING/ANNOUNCEMENT OF VISITORS

##### Acknowledgement of Traditional Owners

The Director Operational Services opened the meeting, welcomed all those in attendance and conducted an Acknowledgement of Country.

#### 2.0 ELECTION OF PRESIDING MEMBER AND DEPUTY PRESIDING MEMBER

##### Election of Presiding Member

Under delegated authority of the Chief Executive Officer, the Director Operational Services conducted the election of the Presiding Member.

One nomination was received for Cr Melissa Mykytiuk.

The Director Operational Services declared Cr Melissa Mykytiuk elected as Presiding Member.

##### Election of Deputy Presiding Member

The Presiding Member conducted the election of the Deputy Presiding Member.

One nomination was received for Cr Bob Brown.

The Presiding Member declared Cr Bob Brown elected as Deputy Presiding Member.

### **3.0 ATTENDANCES, APOLOGIES AND APPLICATIONS FOR LEAVE OF ABSENCE**

#### Present

Cr Melissa Mykytiuk, Presiding Member  
Cr Kathryn Hamilton  
Glen Byleveld, DBCA (until 5.20pm)  
Peter Kane, Department of Planning – Lands & Heritage (until 5.20pm)  
Simon Stewert-Dawkins, Director Operational Services  
Ken Cardy, Manager Asset Services  
Jeremy Walker, Senior Environmental Officer  
Christian Buttle, Acting Manager Development Services  
Naomi Bannister, Community Representative  
Nonie Jekabsons, Community Representative  
Paul Bridges, Community Representative  
John Wood, Community Representative  
Jane Bremmer, Community Representative  
Amy Holmes, Minute Secretary

#### Apologies

Cr Bob Brown, Deputy Presiding Member  
Cr Sarah Quinton  
Stephen Summerton, DFES  
Tim Sparks, Department of Water  
Brian Reed, Manager Development Services

### **4.0 DEPUTATIONS**

#### **Ashfield Flats Reserve – Land Management**

- 4.1** Peter Kane, Department of Planning, Lands & Heritage, tabled a proposed works programme 2018/2023 for consideration by the Committee – see attached.. It is intended to be part of the consultative process with the key stakeholders before finalising. Once the consultative process has been completed this will need to be submitted to WAPC to seek formal sign off.
- 4.2** Glen Byleveld, Department of Biodiversity, Conservation & Attractions, tabled a grant funding opportunity for consideration by the Committee – see attached. The proposal is for National Landcare Programme Phase 2:

- Maximum \$150,000 five year
  - \$60,000 weed mapping and vegetation condition assessment pre and post
  - \$25,000 hydrological
  - \$65,000 restoration, mainly weed control
- Perth region will submit a regional proposal
- Objective addressed protect and enhance threatened ecological community

DCBA needs the Committee to provide:

- In principle support
  - Any in kind support relevant to the proposal
  - Nominate a project lead, can't be DBCA although DBCA can coordinate the hydrological assessment
- *Peter Kane indicated that the Department of Planning will consider how they can be involved.*
- *The Town can provide in kind support.*

## **5.0 CONFIRMATION OF MINUTES**

Nil

## **6.0 ANNOUNCEMENTS BY THE PRESIDING PERSON WITHOUT DISCUSSION**

Cr Mykytiuk stated that she is delighted to be elected as the Presiding Member on this Committee and looks forward to working with members with a wealth of knowledge and skills to achieve great outcomes.

## **7.0 DECLARATIONS OF INTEREST**

Nil

## **8.0 BUSINESS DEFERRED FROM PREVIOUS MEETING**

Nil

## **9.0**                    **REPORTS**

### **9.1**            **Committee Members**

As this is the first meeting of the River Parks Committee meeting, members were asked to introduce themselves.

### **9.2**            **Instrument of Appointment and Delegation**

The above has been included in the Agenda so that members can familiarise themselves with the document.

### **9.3**            **Code of Conduct**

Members of the Committee have been circulated with the Town's Code of Conduct. It is required that members read and understand the conditions of the Code of Conduct and agree to abide by the requirements of this document. Please sign and date the declaration and return to the Town of Bassendean.

### **9.4**            **Bassendean Foreshore Precinct Plan (Ref. GOVN/CCLMEET/1 – Brian Reed, Manager Development Services)**

#### **APPLICATION**

The purpose of this report is to advise the new Committee of the development of the Bassendean Foreshore Precinct Plan.

#### **ATTACHMENTS**

The following attachment were provided in the Agenda:  
Bassendean Foreshore Precinct Plan Draft - April 2014 – see below:

<http://www.bassendean.wa.gov.au/council-meetings/river-parks-committee/251>

#### **BACKGROUND**

The Town, in partnership with the Western Australian Planning Commission and the former Swan River Trust (Department of Biodiversity, Conservation and Attractions), has been attempting to develop the Bassendean Foreshore Precinct Plan.

The Precinct Plan, once finalised, is intended as a policy document and strategy identifying key activity nodes, view corridors, access points and topographical features, supported by a series of specific actions and recommendations.

It is expected that all future land use, subdivision, development and civic design proposals in the Bassendean Foreshore Precinct will take into account the recommendations of the Precinct Plan.

The project has been largely funded out of a \$20,000 grant from the former Swan River Trust which was paid to the Town in 2011.

In order to advance the project, a Steering Committee, comprising officers of the Trust, Western Australian Planning Commission was established in 2012, to oversee production of the Plan and to arrange the appointment of a suitable consulting firm to prepare a draft plan which led to the appointment of UDLA, in early 2014, which in turn led to the production of the draft Plan attached to this agenda.

A Community Reference Group was also established to oversee the community consultation phase of the Plan's production, however, the Community Reference Group has only met on two occasions. It is now envisaged that this Committee will take over the functions of the Community Reference Group.

It must be said that production of the Plan stalled for a number of reasons, including the inability of staff of the Town to commit time to the project, the then impending amalgamation of the City of Bayswater and the Town of Bassendean, and the absorption of the Trust into the Department of Biodiversity, Conservation and Attractions.

However, a program has been agreed with the Department of Biodiversity, Conservation and Attractions, to bring the Plan to finalisation as shown in the comment section below.

### STRATEGIC IMPLICATIONS

The following objectives and strategies are taken from the Strategic Community Plan 2017 – 2027.

#### **Strategic Priority 2: Natural Environment Objectives**

2.1 To display leadership in environmental sustainability

## **Objectives**

2.2 Protect our River, Bushland Reserves, and Biodiversity

### **Strategies**

2.2.1 Protect and restore our biodiversity and ecosystems

2.2.2 Sustainably manage significant natural areas

2.2.3 Partner with stakeholders to actively protect, rehabilitate and enhance access to the river

## **Objective**

2.3 Ensure the Town's open space is attractive and inviting.

### **Strategies**

2.3.1 Enhance and develop open spaces and natural areas to facilitate community use and connection

2.3.2 Sustainably manage ground water, facilitate the conversion of drains to living streams

## COMMENT

The agreed program to finalise the Plan is shown below:

- January 2018: The Town will review the April 2014 version of the Plan and provide any comments/updates to the Department of Biodiversity, Conservation and Attractions( DBCA).(Completed)
- January - February 2018: DBCA will review the April 2014 version of the Plan and update the document with the Town's and DBCA's comments.
- March 2018: The updated draft Plan will go to the Bassendean River Parks Management Committee for comment.
- Early April 2018: DBCA will update the Plan to address the River Parks Committee's comments.
- Late April 2018: The Plan will go out for broader public consultation.
- Early June 2018: DBCA will update the Plan to address the public comments.
- Late June 2018: The Plan will go to the Department of Planning, Lands and Heritage (DPLH) for preliminary comment.
- Late July 2018: DBCA will update the Plan to address the DPLH's comments.
- August 2018: The Plan will be presented to the Bassendean Council for endorsement. After which, DBCA, the Swan River Trust and DPLH can endorse the Plan.

## STATUTORY REQUIREMENTS

Nil at this stage

## FINANCIAL CONSIDERATIONS

The Town has budgeted \$5,000 to complete the project which included \$1,560 of the original Swan River Trust grant funding.

*It was noted that the Committee may be required to meet in March 2018 to receive the updated draft Plan. Date to be advised.*

## COMMITTEE/OFFICER RECOMMENDATION — ITEM 9.4

**RPMC – 1/02/18** MOVED Paul Bridges, Seconded Nonie Jekabsons, that the Committee notes the status report on the Bassendean Foreshore Precinct Plan.

CARRIED UNANIMOUSLY 9/0

### **9.5 Bindaring Park – Stage 2 Bindaring Wetland Concept Plan feedback received– Jeremy Walker Senior Environmental Officer)**

#### APPLICATION

The purpose of the report is to provide and to present to the Committee, the Feedback received from CoTerra concept options and Bindaring Wetland Concept Development Report.

#### ATTACHMENTS

The following attachments were provided in the Agenda:

- Friends of Bindaring Park Bassendean, response to Town of Bassendean on the Bindaring Wetland Concept Plan.
- Department Of Biodiversity, Conservation & Attractions; Rivers & estuaries Division, Bindaring wetland Concept Design Review.
- Co Terra Bindaring Wetland Concept – Sheet 1: Rev C, Sheet 2: Rev C and Sheet 3: Rev C.
- Co Terra Bindaring Wetland Concept Plan Development Report Revision 1.

<http://www.bassendean.wa.gov.au/council-meetings/river-parks-committee/251>

## BACKGROUND

At the Bassendean River Parks Management Committee meeting, in August 2017, (RPMC – 2/08/17) CoTerra Environment representatives presented three Draft Bindaring Wetland concept plans, along with an Officer report summarising each concept, with key outcomes and estimated costs associated with the designs.

The Committee resolved that:

- “1. *The Committee receives the three Bindaring Park Concept Plans and Concept Development Report prepared by CoTerra Environment, and seeks comment from the Bassendean River Parks Management Committee members by Friday 6 October 2017, to enable a report to be presented to the next Committee meeting; and*
2. *Council maintain the current Committee for the 1 November 2017 meeting.”*

The November Committee meeting was cancelled as the newly elected Council were reviewing its Committee structure for the 2017-19 term.

## COMMUNITY & ENGAGEMENT

CoTerra Environment/EPCAD members presented the draft Bindaring Wetland Concept Plan at previous meeting (RPMC – 2/08/17).

Members of the River Parks Committee were asked to review the three draft Bindaring Park Concept Plans and Concept Development Plan prepared by CoTerra Environment, and Committee members are requested to provide their feedback by Friday 6 October 2017 to the Town’s Senior Environmental Officer to enable a report to be presented to the next Committee meeting.

## STRATEGIC IMPLICATIONS

The Bassendean Strategic Community Plan 2017-2027 states, in part, under Natural Environment, the following:

<b>Objectives</b> <i>What we need to achieve</i>	<b>Strategies</b> <i>How we’re going to do it</i>	<b>Measures of Success</b> <i>How we will be judged</i>
2.3 Ensure the Town’s open space is attractive and inviting.	2.3.1 Enhance and develop open spaces and natural areas to facilitate community use and connection.	Community / Stakeholder Satisfaction Survey (Open Space and use of Open Space)

COMMENT

Officers received feedback from two representatives from the Committee, the Friends Of Bindaring Park Friends Group and The Department of Biodiversity, Conservation & Attractions; Rivers & Estuaries Division. Below is a table summarising feedback received.

Responder	Feedback	Officer Comment
Department Biodiversity, Conservation & Attractions	Supportive of plans to improve water quality within Bindaring wetland	
	Recommend that specifications ensure that space, access & fall to construct bio filters to the adoption Guidelines for Stormwater Bio filtration Systems is sufficient and depth below the floating wetlands is sufficient to prevent plant root growth into the base of the wetland	Officer agrees with comment and will provide feedback to Coterra to provide a response and update option 1 concept.
	Recommend option 1 be preferred as it offers greatest nutrient treatment for the least cost	Noted
	Suggested possibility of constructing additional wetland areas within public open space north of Bassendean Parade if desired in future	Noted
	Recommended that further information regarding inputs used by Coterra in the UNDO model be obtained to verify estimated treatment reduction	Officer will request further information from Coterra in regards to UNDO modelling and estimated nutrient reduction.
	Recommend Council notify potential new land owner of land swap that there is potential for a future wetland on the parkland to the west of Lot 271 Hamilton St	Noted comment, however future wetland is proposed to be adjacent lot 100 Hyland St, not Hamilton St.
Friends Of Bindaring Park	Friends Group consider that this plan by Coterra does not go far enough to address core issues and provide a plan for holistic repair of degraded wetland system	Designs are concepts not detailed specifications, next stage would be to develop detailed specifications based off the concepts.
	Friends Group would like to see an environmentally sensitive Hydraulic design that allows the available water flow to support a wetland system that can function well within its urban setting, whilst being accessible to the community	Concept designs are all developed to meet the following objectives: 1. Improve water quality within Bindaring Wetland through the improved treatment of urban stormwater runoff at stormwater discharge locations within the Park.

		2. Improve ecological & Habitat value through removal of weed vegetation, retention of high value trees and rehabilitation using local native species.
		3. Improve access, path connectivity & under-utilised space within the Park for improved recreational amenity. 4. Consider modification of hydraulic controls.
	Friends Group would like a greater emphasis on the 'Living Stream' and their comments are based on that premise	Option 1 preferred option, incorporates a living stream in the northern section of the wetland between Harcourt St & Anstey Rd.
	Friends group would like to see Hydrological/ hydraulic assessments to identify best design	Section 2.5 of the Coterra report covers hydrology component of the concept design for ground water & Surface water, Section 3 is Hydraulic Modelling and Section 4 is water quality modelling, GHD undertook hydraulic modelling for northern section of wetland in 2016, Structerre undertook geotechnical investigations in 2017 both of which contributed to the designs.
	Greater priority given to habitat design	Item 2 of project objective was to Improve ecological & Habitat value, Coterra undertook level 1 fauna survey to gather better understanding of fauna found in wetland prior to developing designs. Officer notes comment on proposed pathways, feedback will be provided to Coterra to remove pathways and replace with boardwalk only as far as Watercorp sewer inspection. Officer seek clarification on which paths exactly friends group would like removed including pathway proposed off Watson St. As mentioned in the Coterra report, further Hydrological & environmental investigations are required to adequately assess the impact that closing off Hyland street and removing culvert would have on the wetland hydrology & ecosystem, the flood levels represented on the concept options are indicative of the current hydraulic controls and existing topography.

		Initial comments from both GHD & Coterra suggest that opening the culvert could impact the freshwater ecology of the upper wetland, as water data logger shows no current salt water intrusion north of Anstey/Lovelock St.
	Ongoing management  Nutrient Pollution Reduction	Ongoing management is developed as part of the detailed specifications and drawings. Section 4 of Coterra report explains water quality monitoring that has been undertaken for the past 7 years in conjunction with department of water & City of Bayswater. Officers can seek more detail from Coterra on how suggested treatment options will increase conservation values and habitat capacity. Detailed design will take into consideration depth required for floating wetland to be successful and any excavation/silt removal required to achieve this.
	Request that staff consult with Friends group & Councillors before any future scopes are developed for work in Bindaring	officers presented scope for stage 2 at RPMC (RPMC – 1/11/16) prior to seeking quotes from contractors.

### STATUTORY REQUIREMENTS

Local Government Act 1995  
Environmental Protection Act 1986  
Contaminated Sites Act 2003

### FINANCIAL CONSIDERATIONS

Once Council adopts the Bindaring Park Concept Plan, funds are proposed to be listed in the 2018/2019 Long Term Financial Plan to prepare the detailed design drawings, specifications and detailed cost estimates, and to progressively implement to proposed restoration and amenity works.

*Mr Glen Byleveld and Peter Kane left the Chamber at 5.20pm and did not return.*

OFFICER RECOMMENDATION – ITEM 9.5

That:

1. The feedback received by Friends of Bindaring Park and the Department of Biodiversity, Conservation & Attractions, be received;
2. Officers request CoTerra to update Option One to incorporate the following feedback comments:
  - recommend that specifications ensure that space, access & fall to construct bio filters to the adoption Guidelines for Stormwater Bio filtration Systems is sufficient and depth below the floating wetlands is sufficient to prevent plant root growth into the base of the wetland;
  - further information regarding inputs used by CoTerra in the UNDO model be obtained to verify estimated treatment reduction;
  - CoTerra update pathways as per feedback and replace with boardwalk only as far as Watercorp sewer inspection. Officer seek clarification on which paths exactly friends group would like removed including pathway proposed off Watson St before sending request to CoTerra; and
  - can seek more detail from CoTerra on how suggested treatment options will increase conservation values and habitat capacity.
3. Officers present the updated Option 1 concept to the Committee at the next meeting prior to presenting to Council for endorsement.

LAPSED FOR WANT OF A MOVER

*Paul Bridges moved an Alternative Motion.*

COMMITTEE RECOMMENDATION – ITEM 9.5

**RPMC – 2/02/18** MOVED Paul Bridges, Seconded Nonie Jekabsons, that:

1. The feedback received by Friends of Bindaring Park Bassendean and the Department of Biodiversity, Conservation & Attractions, be received;
2. Officers request CoTerra amend Option One to incorporate the following feedback comments:

- a) That specifications ensure that space, access & fall to construct bio filters satisfy the Guidelines for Stormwater Bio filtration Systems and delete the floating wetland.
  - b) Further information regarding inputs used by CoTerra in the UNDO model be obtained to verify estimated treatment reduction.
  - c) CoTerra to update pathways as per feedback and replace with a boardwalk as far as the first Watercorp sewer inspection. *Officers to seek clarification on which paths exactly the friends group would like removed including pathways proposed off Watson St before sending this request to CoTerra;*
  - d) CoTerra to detail how suggested treatment options will increase conservation values and habitat capacity;
  - e) That consideration be given to including an inspection window in the gross pollutant trap;
3. That CoTerra provide an amended Option Three plan and feedback that incorporates:
- a) Include consideration of islands to increase the wetlands habitat capacity and nutrient stripping potential;
  - b) Consideration of a settling pond for silt removal at the Harcourt St west outlet;
  - c) Incorporate as an option the reconnection of the wetland at Hyland Street and the removal of the causeway as outlined in the Option Three callout;
  - d) Provide a design with modified wetland levels enabling all portions of the freshwater wetland to be inter linked to a shaded pool of sufficient size and depth to be a year round expression of the underlying ground water capable of supporting an ongoing population of endemic mosquito predators;
  - e) Provide options for the inclusion of an adjustable weir either at the current weir site, under the first boardwalk or elsewhere to maintain the wetlands freshwater ecological character by preventing the intrusion of salt due to rising river levels associated with climate change; and

4. Officers present the updated concepts and project estimates of the time and cost to complete these hydrological and environmental assessments of these variations to the Committee.

CARRIED UNANIMOUSLY 7/0

*Reason: The current option does not address rising sea levels, salt inundation, natural mosquito control and enhanced environmental habitat.*

**10.0**                    **MOTIONS OF WHICH PREVIOUS NOTICE HAS BEEN GIVEN**

Nil

**11.0**                    **ANNOUNCEMENTS OF NOTICES OF MOTION FOR THE NEXT MEETING**

Nil

**12.0**                    **CONFIDENTIAL BUSINESS**

Nil

**13.0**                    **CLOSURE**

The next meeting will be held on Tuesday 8 May 2018 commencing at 3.00pm.

There being no further business, the Presiding Member closed the meeting at 5.40pm.

## Ashfield Flats Works Program: 2018-2023



### Overview: Ashfield Flats - treatment of areas

Area	Details	Priority	Funding
Foreshore	<ul style="list-style-type: none"> <li>Remediate foreshore areas near boardwalk that have been severely affected by erosion and implement erosion control measures subject to approval by DBCA. Proposed remediation techniques to include stabilisation of the foreshore using hessian bags filled with locally sourced material, brush walling, infill with local sand, brush matting, coir matting and revegetation using endemic riparian species. Research and monitoring will be undertaken to assess whether treatment is effective</li> <li>Continue to maintain existing areas where foreshore stabilisation and revegetation works have been carried out including additional plantings, signage, ongoing weed management and maintenance of fencing to protect revegetated areas from dogs and pedestrian traffic</li> <li>Work in conjunction with SRT to develop species list, signage and staged plan of implementation (may be suitable for SRT funding)</li> <li>Revegetate back ~20m from the foreshore with medium density vegetation (to enable some access by pedestrians). Minimum of 5 year program, yearly plantings and ongoing maintenance will be required for this area</li> </ul>	High (within 1 year)	DPLH ~\$30k  ~\$10k
	<ul style="list-style-type: none"> <li>Remove the existing path along the foreshore</li> <li>Re-alignment of the pathway along the foreshore and relocation of benches above the area of tidal influence to allow for the creation of a wider strip of native riparian vegetation along the foreshore</li> </ul>	Low (within 3-5 yrs)	DPLH ~\$300k

<b>Revegetated Woodland</b>	<ul style="list-style-type: none"> <li>Undertake revegetation program to create an open woodland corridor using appropriate species such as <i>Eucalyptus rudis</i> - develop a suitable species list in conjunction with Swan River Trust and Bassendean Preservation Society</li> <li>New sealed path to be on a lateral alignment with revegetated area. Path to double as fire access track as needed</li> <li>Maintain as a public open space</li> <li>Continue program of weed mapping, targeted weed management, weed monitoring and slashing of open grassed areas</li> </ul>	Medium/High (Within 1-2 yrs)	DPLH ~\$30k
<b>Fringing Woodland</b>	<ul style="list-style-type: none"> <li>Path at northern boundary further delineated</li> <li>Maintain and enhance existing woodland areas with supplementary planting and weed management</li> <li>Undertake fire hazard reduction works where necessary to reduce fuel loads in the margins of the reserve, consideration of the ecological values of the site must be considered prior to scheduling work of this nature</li> <li>Continue program of weed mapping, targeted weed management, weed monitoring and slashing of open grassed areas</li> </ul>	Low (Within 3 yrs)	DPLH ~\$30k
<b>Samphire Wetland and Stormwater Treatment Areas</b>	<ul style="list-style-type: none"> <li>Investigate options to infill Water Corporation drains and redirect flows to mimic the historical hydrology of the wetlands including a revegetated area for stormwater treatment and sediment capture - hydrology study required</li> <li>Investigate options to include a stormwater treatment area on ToB held Lots adjacent to Iveson Place, Bassendean</li> <li>Consider potential environmental impacts and feasibility of providing a walking trail incorporating boardwalks and a viewing platform</li> <li>Planting of fringing vegetation around Samphire Wetland area to reduce invasion by weeds and provide cover for fauna</li> <li>Ongoing weed management</li> </ul>	Low (Within 3 yrs)	DPLH/ Water Corp  \$TBA
<b>Dogs Off-Leash area</b>	<ul style="list-style-type: none"> <li>Subdivided into separate lots and fenced</li> <li>Either Ceded to Crown with Management Order to ToB or leased</li> <li>Fire Access Track along northern border</li> </ul>	Medium/High (Within 1-2 yrs)	
<b>Viewing Area</b>	<ul style="list-style-type: none"> <li>Continue revegetation/ stabilisation program and weed management on the steep bank and lookout at Villiers St West</li> <li>Potential to subdivide out of Lot 821 and cede to Crown with Management Order to ToB subject to pending contaminated site classification</li> </ul>	Medium/High (Within 1-2 yrs)	DPLH/ ToB
<b>Fire Access Tracks And Bushfire Management</b>	<ul style="list-style-type: none"> <li>Construction of strategic fire access tracks for emergency response vehicles, location of limestone access tracks to be determined through consultation with relevant stakeholders</li> <li>Recognise the use of Helitac equipment during fire response as best</li> <li>Prescribed burning unlikely due to Wetland area and Bush Forever status</li> <li>Must work with ToB to manage vegetation on their Lots 3 and 12 at rear of</li> <li>Maintain fences, bollards and access gates to restrict unauthorised vehicle access</li> </ul>	Medium/High (Within 1-2 yrs)	DPLH
<b>Aboriginal Heritage</b>	<ul style="list-style-type: none"> <li>Undertake consultation with traditional owners with historical connections and knowledge relevant to Ashfield Flats</li> </ul>	Medium/High (1-2 yrs)	N/A
<b>Fragmented Areas</b>	<ul style="list-style-type: none"> <li>Consolidate fragmented land parcels and unmade roads to create well defined management areas for the appropriate land managers to maintain and improve</li> </ul>	Low (Within 3 yrs)	N/A
<b>Acid Sulphate Soils</b>	<ul style="list-style-type: none"> <li>High probability of ASS and PASS onsite</li> <li>Best approach is to minimise disturbance</li> <li>Infill of Water Corp drain may reduce acidification processes</li> </ul>	Low (Within 3 yrs)	N/A



National Landcare Programme Phase 2

6 February 2018 DRAFT			Jul-Dec 2018	Jan-Jun 2019	Jun-Dec 2019	Jan-Jun 2020	Jun-Dec 2020	Jan-Jun 2021	Jun-Dec 2021	Jan-Jun 2022	Jun-Dec 2022	2023	Activity coordinator (land manager, community group)											
Site name	Proposed management activity	Priority targeted by management action (Pick one: TEC, Threatened sp, or Ramsar)	Funded by? (NLP, land manager, shared, other?)	Cost (if activity planned for period, enter cost here)	Output (i.e. hectares, km, kg)	Cost (if activity planned for period, enter cost here)	Output (i.e. hectares, km, kg)	Cost (if activity planned for period, enter cost here)	Output (i.e. hectares, km, kg)	Cost (if activity planned for period, enter cost here)	Output (i.e. hectares, km, kg)	Cost (if activity planned for period, enter cost here)	Output (i.e. hectares, km, kg)	Activity coordinator (land manager, community group)										
Ashfield Flats	Vegetation condition assessment mapping and weed mapping	TEC (Subtropical and Temperate Coastal Saltmarsh)	NLP	\$20,000	Provision of assessment mapping	\$10,000	Provision of assessment mapping	\$0		\$0		\$0	Provision of assessment mapping	\$10,000	Provision of assessment mapping	DBCA								
Ashfield Flats	Preliminary investigations including hydrological survey and acid sulphate soil investigations	TEC (Subtropical and Temperate Coastal Saltmarsh)	DBCA	\$30,000	Installation and monitoring of at least 10 bores	\$0		\$0		\$0		\$0		\$0		DBCA								
Ashfield Flats	Hydrological Survey	TEC (Subtropical and Temperate Coastal Saltmarsh)	NLP	\$0		\$0	Commencement of detailed hydrological assessment inclusive of recommendations for protection of TEC	\$5,000		\$20,000	Finalisation of 1 x detailed hydrological assessment inclusive of recommendations for protection of TEC	\$0		\$0		DBCA								
Ashfield Flats	Hydrological Survey	TEC (Subtropical and Temperate Coastal Saltmarsh)	DBCA	\$0		\$0	Commencement of detailed hydrological assessment inclusive of recommendations for protection of TEC	\$5,000		\$20,000	Finalisation of 1 x detailed hydrological assessment inclusive of recommendations for protection of TEC	\$0		\$0		DBCA								
Ashfield Flats	Restoration activities	TEC (Subtropical and Temperate Coastal Saltmarsh)	NLP	\$0		\$0		\$0	\$5,000	5 ha	\$15,000	19 ha	\$15,000	19 ha	\$15,000	19 ha	\$15,000	19 ha	\$0	19 ha	DBCA			
Ashfield Flats	Project management	TEC (Subtropical and Temperate Coastal Saltmarsh)	DBCA (in-kind)	\$20,000	Project management	\$10,000	Project management	\$10,000	Project management	\$10,000	Project management	\$0		\$0		\$0		\$0		\$0	DBCA			
Ashfield Flats	Project management	TEC (Subtropical and Temperate Coastal Saltmarsh)	DBCA	\$70,000	Project management	\$10,000	Project management	\$20,000	Project management	\$55,000	Project management	\$15,000	Project management	\$15,000	Project management	\$15,000	Project management	\$15,000	Project management	\$20,000	Project management	\$10,000	Project management	DBCA