

SPARROVALE WETLANDS

DCP Project DI DR 13 - SPARROVALE WETLAND - MANAGEMENT PLAN AND 10 YEAR IMPLEMENTATION WORKS

Delivery, establishment and management of the Sparrovale Wetlands (*Sparrovale* and *Cold Winds* properties) for the first 10 years of the Precinct's life to effectively transition the site from a degraded farmland to a functional, integrated and sustainable wetland system.

Item	Description	Qty	Unit	Rate	Cost	Notes / Comments
1	GOVERNANCE				\$ 350,000	
1.1	Preparation of Sparrovale Wetlands Master Plan	1	Item	\$ 50,000	\$ 50,000	
1.2	Preparation of Sparrovale Wetlands Management Plan	1	Item	\$ 100,000	\$ 100,000	Seek State and Federal endorsement
1.3	Preparation of Sparrovale Wetlands Flora and Fauna Assessment (including a potential Fauna Conservation Management Plan)	1	Item	\$ 75,000	\$ 75,000	
1.4	Preparation of Sparrovale Wetlands Cultural Heritage Management Plan	1	Item	\$ 50,000	\$ 50,000	
1.5	Preparation of Sparrovale Wetlands Hydrological Model, Ground Water Assessment and Water Management	1	Item	\$ 75,000	\$ 75,000	effective management of water flows and retention to sustain the wetland during its establishment (including flood gate operation and Barwon River Flood Mgt).
2	ENVIRONMENTAL MANAGEMENT				\$ 2,000,000	
2.1	Land Environmental Audit and Contamination Assessment	1	Item	\$ 75,000	\$ 75,000	The two properties have had a history of illegal fill and rubbish dumping on the site.
2.2	Rubbish Removal	1	Item	\$ 100,000	\$ 100,000	Making the site safe and fit for purpose.
2.3	Land Contamination - Mitigation works (contamination materials / soils, etc)	1	Item	\$ 250,000	\$ 250,000	
2.4	Fencing Works - Rabbit proofing, boundary improvement, gates, etc)	1	Item	\$ 350,000	\$ 350,000	Removal of existing areas of rural fence and replacement with appropriate public land / access control fencing.
2.5	Weed Mapping and Management (inclusive of burning)	500	Ha	\$ 1,500	\$ 750,000	Complete via an annual weed management program and routine mapping to support program (~ \$75,000 pa)
2.6	Wetland revegetation (salinity management, ground and levee stability, etc)	1	Item	\$ 250,000	\$ 250,000	
2.7	Pest Control	1	Item	\$ 150,000	\$ 150,000	Pest control and management, including rabbit warren removal (\$15K pa). The land has an known issue with the presence of rabbit and foxes.
2.8	Sparrovale Wetland - Buffer planting / screening	1	Item	\$ 75,000	\$ 75,000	
3	DRAINAGE WORKS				\$ 1,025,000	
3.1	Levee Audit - Assess structural integrity and ability to meet performance	1	Item	\$ 75,000	\$ 75,000	
3.2	Levee Improvement Works (improve structural integrity, erosion, etc)	1	Item	\$ 500,000	\$ 500,000	
3.3	Sedimentation Management	3	Item	\$ 100,000	\$ 300,000	Works undertaken once every 3 years, including grass and plant re-establishment combination of walking and vehicular tracks to allow maintenance access during critical times of the year (eg: pre and post flood events)
3.4	Levee Access - Improved access tracks and access to the levee	1	item	\$ 150,000	\$ 150,000	
4	PUBLIC ACCESS MANAGEMENT				\$ 330,000	
4.1	Establishment of a public viewing area (car parking, seating, fencing, etc)	1	Item	\$ 250,000	\$ 250,000	Targeted access and viewing point for the public to avoid sporadic and uncontrolled access to the site.
4.2	Wetland Signage (interpretive, no access areas, etc)	1	Item	\$ 50,000	\$ 50,000	
4.3	Alcoa Powerline Easement - Improvement vehicle access	1	Item	\$ 30,000	\$ 30,000	The establishment of a wetland on the land will result in additional water depth and limitation on access to the easement. This access need to be maintained for maintenance and emergency management.
5	MONITORING				\$ 325,000	
5.1	Engineering - Routine Levee Audit (risk and structural)	5	Years	\$ 15,000	\$ 75,000	Undertaken every 2 years
5.2	Biodiversity Assessment and Monitoring	10	Years	\$ 15,000	\$ 150,000	Annual monitoring
6.3	Water Quality Monitoring	20	Years	\$ 5,000	\$ 100,000	Bi-annual monitoring of stormwater quality, flows and water table
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	TOTAL				\$ 4,030,000	Excl. GST

* The above works exclude initial civil works required to construction new internal levee, drainage channels, flood gate / values works and general maintenance access tracks.
(refer Horseshoe Bend Precinct Development Contributions Plan; project DI_DR_12 - Sparrovale Wetland - Construction)