

**ESTUARY ASSESSMENT FRAMEWORK FOR NON-PRISTINE ESTUARIES**

**Estuary 1035 (ANDERSON CREEK)**

**Estuary ID** 1035

**Name** ANDERSON CREEK

**Location**

**Latitude / Longitude** -38.755 143.656      **Datum** GDA94

**Condition Assessment** This estuary is in largely unmodified condition

**Initial Classification** In the first stage of this condition assessment this estuary was classified as being largely unmodified.

**Basis of Initial Classification**

**Processed-Based Classification**

**Issues:**

**General Comments / Notes:**

	<b>Notes, Data and Supporting Qualitative Text</b>	<b>Rating (1-4)</b>	<b>Data Confidence</b>	<b>References</b>
STATE COMPONENT (OVERALL)		2	C	
ECOSYSTEM INTEGRITY INDEX			D	
Eutrophication				
Chlorophyll a (µg/L) [median(80th)] HEAD				
Chlorophyll a (µg/L) [median(80th)] MIDDLE				
Chlorophyll a (µg/L) [median(80th)] MOUTH				

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Chlorophyll a (µg/L) [median(80th)] AVERAGE

Harmful algal blooms

Turbidity [median(80th)]

Turbidity (NTU or secchi depth) HEAD

Turbidity (NTU or secchi depth) MIDDLE

Turbidity (NTU or secchi depth) MOUTH

Turbidity (NTU or secchi depth) AVERAGE

Shellfish closures

Fish/bird kills

Pathogens

Faecal coliforms (no/100mL) [median(80th)] HEAD

Faecal coliforms (no/100mL) [median(80th)] MIDDLE

Faecal coliforms (no/100mL) [median(80th)] MOUTH

Faecal coliforms (no/100mL) [median(80th)] AVERAGE

Critical habitat loss

Anoxic and hypoxic events

Invasive species

	<b>Notes, Data and Supporting Qualitative Text</b>	<b>Rating (1-4)</b>	<b>Data Confidence</b>	<b>References</b>
<b>HABITAT CONDITION INDEX</b>	No Deviation Calculated		D	2
Seagrass species present	Zostera spp., Ruppia spp.			

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Seagrass coverage	0.409 km2		
Mangrove species present			
Mangrove coverage			2
Saltmarsh coverage			2
Wetland coverage			

Notes, Data and Supporting Qualitative Text	Rating (1-4)	Data Confidence	References
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<b>FISH CONDITION INDEX</b>		D	
Diversity	Fish species present: Southern Sea Garfish, Sea Mullet, Australian Salmon, Luderick, Sand Flathead, Black Bream, King George Whiting, Greenback Flounder, Yellow Eyed Mullet		1
Abundance			
Health			
Recruitment			

Notes, Data and Supporting Qualitative Text	Rating (1-4)	Data Confidence	References
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<b>WATER QUALITY INDEX</b>	No water quality data		D
Nutrients [median(80th)]			
Dissolved oxygen [median(20th)]			
Dissolved oxygen [surface] (%sat or mg/L) HEAD			
Dissolved oxygen [surface] (%sat or mg/L) MIDDLE			
Dissolved oxygen [surface] (%sat or mg/L) MOUTH			
Dissolved oxygen [surface] (%sat or mg/L) AVERAGE			
Dissolved oxygen [bottom] (%sat or mg/L) HEAD			

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Dissolved oxygen [bottom] (% sat or mg/L) MIDDLE

Dissolved oxygen [bottom] (% sat or mg/L) MOUTH

Dissolved oxygen [bottom] (% sat or mg/L) AVERAGE

pH

Acid sulphate prolems-No mapping/survey

Heavy metals

Are heavy metals a problem in this estuary (Y/N)?

Other toxicants (including pesticides)

Salinity

Temperature

Depth

Notes, Data and Supporting Qualitative Text	Rating (1-4)	Data Confidence	References
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SEDIMENT QUALITY INDEX

D

Sediment toxicants

Sediment load TN

Sediment load TP

Invertebrate diversity

Invertebrate abundance

Notes, Data and Supporting Qualitative Text	Rating (1-4)	Data Confidence	References
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PRESSURE COMPONENT (OVERALL)

D

UTILISATION INDEX

D

Recreation Pressure

Aesthetic & Amenity

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Yachting & Boating	2 swing moorings
Shellfish	
Swimming	
Recreational Fishing	Present; 4 boat ramps
Infrastructure Pressure	
Sewage Treatment Plants	None present; no longer discharge
Urbanisation and urban runoff	
Dredging	Absent
Commercial Pressure	
Industry	
Aquaculture	Absent; previous mussel farm
Reclamation / Declamation	Absent
Commercial fishing	
Tourism	
Agriculture	
Habitat clearing	
Ports & Port Works	
Shipping Activity	

**Notes, Data and Supporting Qualitative Text**

**Rating (1-4)      Data Confidence      References**

**SUSCEPTIBILITY INDEX**

D

Flow-modifying structures	None
Catchment loads	
Flows and flushing	

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Acid sulphate soils

RESPONSE COMPONENT (OVERALL)

Institutional Arrangements

No habitat-protected areas

Management Actions

Community Initiatives

Details of References

1. VIC state data, 2. AGSO, 3. Derived from BRS landcover data

Key Contacts