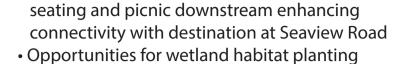
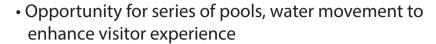


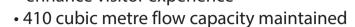
**JOURNEY "CITY TO SEA"** 

#### **KEY FEATURES:**

- Retain existing large trees where possible
- Upgrade and widen existing shared-use path • Horses located upstream, greater opportunity for water to be filtered through a series of pools and reed plants along the creek before discharged to the sea
- Opportunities for open spaces, rest areas, seating and picnic downstream enhancing
- Drop structures and cut channel at outlet allow more control of water flows









**CONSTRAINTS:** 

• Shallow DN 1275 water main.

May need to relay main pipe

#### **DESIGN PRINCIPLES:**

## 1. PROVIDE SUFFICIENT **FLOOD CONVEYANCE**

- Modify outlet structure to enable control of water level
- Introduce drop structures Retain existing flow monitoring
- Retain existing levee banks

## CONDITION

- Series of reed beds to improve

- the river

BRIDGE STRUCTURE

CREEK

HORSE FENCE

BRIDLE PATH

SHARED-USE PATH

----- INTERPRETIVE TRAIL

MAINTENANCE ACCESS

MAINS WATER (DN1275)
FO EIRRE ORTIC CARLE

--- STORMWATER OUTLETS

FIBRE OPTIC CABLE

**ABOVE FLOOD ZONE** 

OPTIONAL DEVELOPMENT AREA

FLOATING LITTER BOOM

POOL (TYPICAL DEPTH: 2-3m)

#### 3. RETAIN A SPACE FOR **HORSES**

- - side of the river at Tapleys Hill
  - Planted buffer to creek
  - Viewing decks to view horses Interpretation of history
  - Open grassed areas
  - Fences / gates
  - Water troughs
  - Bridle paths

#### 4. PROVIDE EQUITY IN **ACCESS AND USE**

- Increase public access to open
- Provide different crossing opportunities
- Retain / upgrade lighting to
- shared-use path and rest areas
- vegetation along upper banks
- Provide access to the river from residential streets

Deep section / pool

#### 5. IMPROVE RECREATION **OPPORTUNITIES**

- Provide rest areas
- Picnic / seating / shelters / bins

- opportunities

#### 6. ENHANCE THE GENERAL **AMENITY**

- Provide a mix of landscape
- features, interests and activities Retain existing large trees
- Mask existing concrete pumping
- structure with decking Remove floating litter boom and
- concrete structure at outlet and relocate to Tapleys Hill Road end • Retain open landscsape character with tall trees and low shrubs /

### 7. INCREASE PERSONAL SAFETY FOR USERS

- Provide lighting at strategic
- locations

easy access

- Manage vegetation selection and growth for visibility and
- Provide well-signed access for
- Provide suitable path design for all types of users

#### 8. ENABLE ONGOING MAINTENANCE AND **MANAGEMENT**

- Provide adequate access for
- maintenance vehicles Locate high maintenance activity areas near to existing
- access gates (e.g. floating litter boom) Use durable and sustainable
- Minimise grassed edges at
- Create buffer between creek edge and fenced horse area

# 9. PRACTICAL DESIGN

Construction can be staged

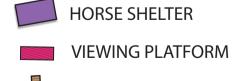
## **LEGEND**



SHRUBS/TUSSOCKS/ GROUNDCOVERS



SHELTER



INFORMAL CROSSING POINTS (VARIOUS TYPES) ROCK EDGE

LOGS **DROP STRUCTURE** (TYPICAL DEPTH: 400-500mm) HARD EDGE TO CREEK BANK

## 2. IMPROVE WATERCOURSE

- water quality through bio-filtration
- Improve local biodiversity with establishment of wetland habitat
- Increase depth of river with pools in strategic sections along
- Enhance visitor experience through water movement and sound over drop structures
- Incorporate new and existing fish ladders to provide for fish passage

- Create horse agistment on South
- Road end
- Feeding / sheltered areas

Shared-use

path

Woodland

Shared-use

path

SECTION A

- Trees for shade

# Selectively remove dense

 Manage vegetation selection and growth to ensure sightlines

Horse

Fenced buffer

zone

agistment area

## Improve connections / access and views across the site

Woodland

Bridle path

Shared-use

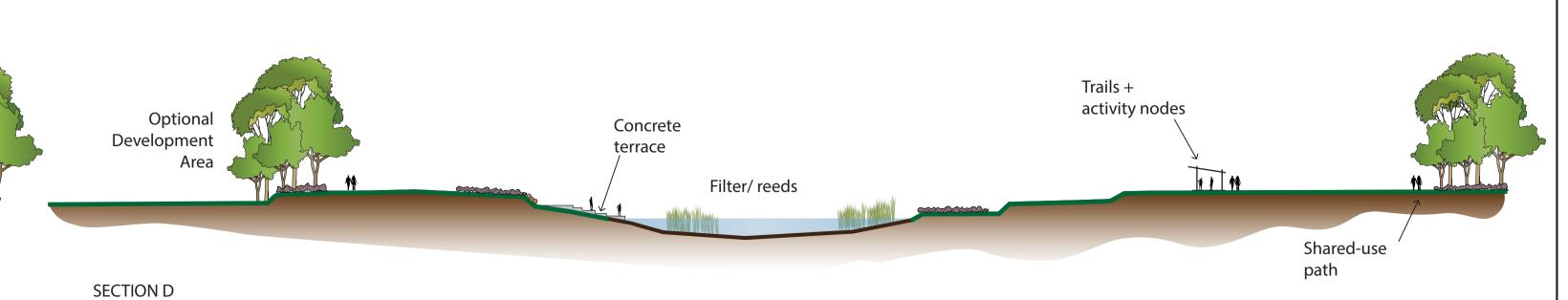
Shared-use

path

- Create interpretive trail Provide lighting
- Different trail experiences Boardwalk / viewing / education

# groundcovers

# Viewing Interpretive Drop structure & Filter / trail SECTION C













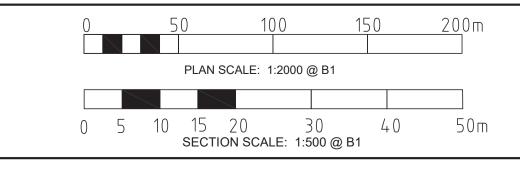


PROJECT **CLIENT** 

DRAWING

**Breakout Creek** Adelaide and Mount Lofty Ranges Natural Resources Management Board Final Concept Plan





DATE: 09/13/19 DWG NO.: OS480\_CP01I DRAWN BY: BV APPROVED BY: KB