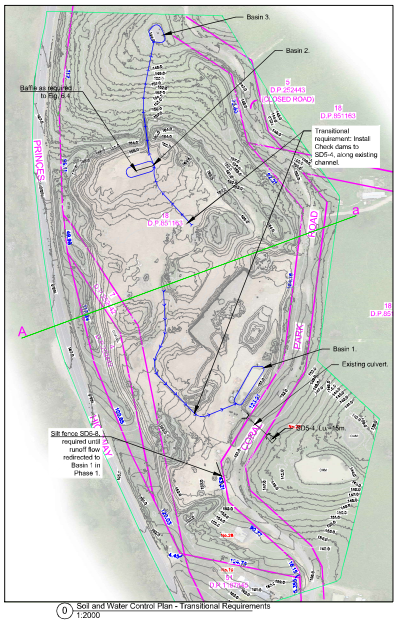
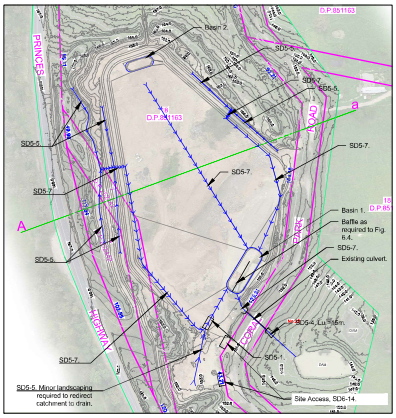


0 Soil and Water Control Plan - Transitional Requirements
1:2000



1 Soil and Water Control Plan - Phase 1
1:2000

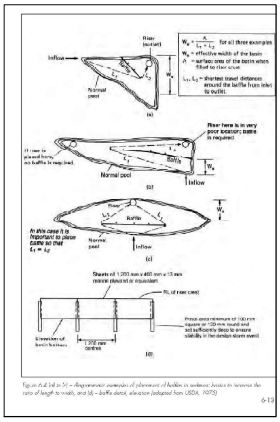
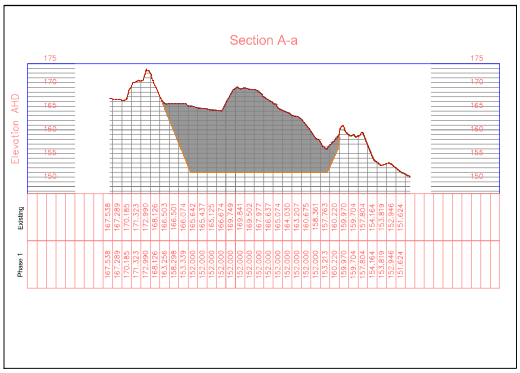


Figure 6.4 (a) to (c) – Representative examples of placement of baffles in wetland basins to increase the ratio of length to width, and (d) – baffle detail, elevation (adapted from USDA, 1975)

6-13



3 Section A-a
H:1:2000, V:1:400

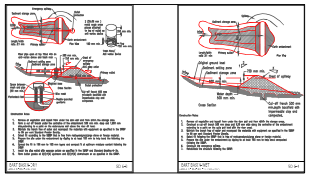
Excavation Volumes
This SWCP estimates the following extraction yields:

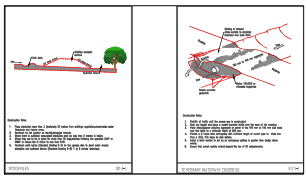
Phase 1: 298,200m3

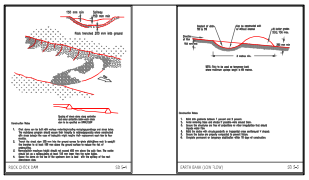
Total: 298,200m3

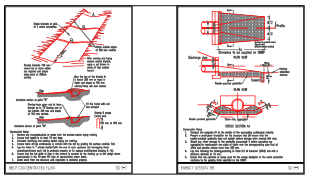
Density of rock approx. 2.7t/m³

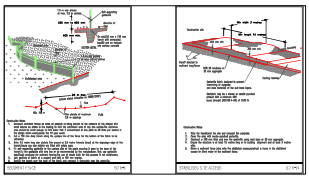
Yield 804,140t











NOTES:

Sheet Index

Soil and Water Control Plan
C01 Soil and Water Control Plan

Environmental Rehab. Management Plan
C02 Environmental Rehab. Management Plan

General Specification
All dimensions are in millimeter unless noted otherwise. Do Not Scale. If in doubt, ask!
All drawings shall be printed in colour (except Standard Drawings which may be printed in Black and white).

All water and soil control devices shown are to be constructed to Soils and Construction Vol1. 4th ed. aka."The Blue Book" & Vol. 2e Mines and Quarries (Landcom 2004). All standard drawings are attributable to this resource.

Rehabilitation and revegetation works to be undertaken in accordance with Soils and Construction Vol1. 4th ed. aka."The Blue Book" & Vol. 2e Mines and Quarries (Landcom 2004).

Maintenance of water and soil control devices to be undertaken in accordance with KEE01-02 – Operational Environmental Management Plan (OEMP) KEE01-02 – Soil and Water Management Plan (SWMP) supporting these detailed drawings.

All formed slopes are indicative. Persons performing excavation shall satisfy themselves of suitability and safety of batters and embankments. Slope stability and maximum batter slopes have not been calculated.

Associated Drawings & Survey Plans
The following drawings and survey plans shall be read in conjunction with this Soil and Water Control Plan:
Site Survey: "PLAN SHOWING REMOTE PILOTED AIR SYSTEM SURVEY OVER PART LOTS IN DP851163 & LOT 4&6 IN DP252442 WOLLAMLA NSW, 2550. Rev. 1. By CMS Surveyors Pty. Limited. Dated 22 Mar 2022.

BASIN SPECIFICATIONS

Basin Name: Basin 1
Basin Type: Wet/Dry Basin
Construction Detail: SD6-3 or SD6-4.
Minimum Volume: 1415m³.
Minimum Surface Area: 881m².
Geometry Limitations: Surface area of 4,100 m²/m³/sec in the 3-month ARI flow, minimum depth of 0.6m, and Length: Width ratio of 3:1. Use baffle (fig.6.4) to achieve required flow path.
Sequencing: Existing basin requiring expansion. Spillway and riser to be in-place prior to commencement of Phase 1. Storage capacity may be gradually increased proportionally with the increase of the catchment during Phase 1.
Possible configuration as shown:L:52m, W:18m, D:1.4m, Slope 1:1.

Basin Name: Basin 2
Basin Type: Wet/Dry Basin
Construction Detail: SD6-3 or SD6-4.
Minimum Volume: 438m³.
Minimum Surface Area: 247m².
Geometry Limitations: Surface area of 4,100 m²/m³/sec in the 3-month ARI flow, minimum depth of 0.6m, and Length: Width ratio of 3:1. Use baffle (fig.6.4) to achieve required flow path.
Sequencing: Basin 2 to be in-place prior to commencement of Phase 1.
Possible configuration as shown:L:29m, W:11m, D:1.4m, Slope 1:1.

Basin Name: Basin 3
Basin Type: Wet Basin
Construction Detail: n1 = existing.
Minimum Volume: 438m³.
Minimum Surface Area: 247m².
Geometry Limitations: Existing basin.
Sequencing: Basin 3 is only required until Basin 2 is brought on-line. Basin 3 works should be limited to sedimentation removal.

REV	DESCRIPTION	BY	DATE
02	Amended/removal of Phase-2	MV	27 Jun 23
01	Issue For DA	MB	29 Apr 22

STATUS: ISSUE 01

BSE Consulting
STRUCTURAL
CIVIL
ENVIRONMENTAL
CONSULTING ENGINEERS
www.bseconsulting.com.au

CLIENT: Murray Walsh

PROJECT: Proposed Quarry Expansion

SITE: 28 Coral Park Road Wollamla NSW 2550

TITLE: Soil and Water Control Plan

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
1:2000	27 Jun 23	JG	MV

PROJECT NO:	DRAWING NO:	REVISION:
KEE01-02	C01	02