

Water Monitoring Report December 2022

SSD 9697 – Ravensworth Ash Line
Upgrade





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1. Introduction

This report outlines the results of water monitoring data completed for the Ravensworth Ash Line construction project associated with SSD 9697. The monitoring data presented is for 1-31 December 2022; hereby referred to as 'the reporting period'.

Monitoring is completed in accordance with the requirements of Section 7 of the Bayswater Power Station Ravensworth Ash Line – Water Management Plan – Construction (the WMP). Results are assessed against the criteria set in Section 8 of the WMP, with actions taken as per Section 9 of the WMP.

2. Results

2.1 Water Monitoring

Results for the reporting period are summarised in **Table 1**. Any results outside of criteria are highlighted.

Table 1 – Water sampling results for the reporting period

Sample Site	pH		Electrical Conductivity µS/cm		Turbidity (NTU)	
	Results	Criteria	Results	Criteria	Results	Criteria
Monthly Sampling						
Chilcotts Creek Upstream	4.85	6.5-8.5	6810	125-5438	80	6-50
Chilcotts Creek Downstream	6.90	6.5-8.5	5350	125-5438	6.8	6-50
Pikes Creek Upstream	7.33	6.5-8.5	3830	125-5438	10	6-50
Pikes Creek Downstream	7.36	6.5-8.5	4070	125-5438	5.6	6-50
Bayswater Creek Upstream	Dry	6.5-8.5	Dry	125-3,450	Dry	6-50
Bayswater Creek Downstream	Dry	6.5-8.5	Dry	125-3,450	Dry	6-50



2.2 Rainfall

Daily rainfall from the main site meteorological station is presented in **Table 2**. In December 2022 there was no recorded rainfall event of 20mm or more, so no rainfall sampling or investigation was required.

Table 2 – Daily rainfall during the reporting period

Date	Rainfall (mm)
01/12/2022	-
02/12/2022	-
03/12/2022	-
04/12/2022	-
05/12/2022	-
06/12/2022	-
07/12/2022	-
08/12/2022	-
09/12/2022	-
10/12/2022	-
11/12/2022	-
12/12/2022	-
13/12/2022	2.5
14/12/2022	-
15/12/2022	-
16/12/2022	-
17/12/2022	-
18/12/2022	-
19/12/2022	0.5
20/12/2022	-



Date	Rainfall (mm)
21/12/2022	-
22/12/2022	-
23/12/2022	2.5
24/12/2022	5.0
25/12/2022	-
26/12/2022	-
27/12/2022	-
28/12/2022	-
29/12/2022	-
30/12/2022	-
31/12/2022	-
Total	10.5 (mm)

3. Discussion

The majority of sample results for December 2022 were within trigger guidelines in the WMP.

Investigation into the results outside of trigger limits at Chilcotts Creek and Pikes Creek was conducted.

Levels outside of trigger limits at Chilcotts Creek were on upstream samples only, with downstream samples all within WMP criteria. These results suggest that works associated with construction of the Ravensworth Ash Line did not contribute to the upstream levels. No flow was observed at the time which suggests there was standing water which would adversely impact on monitoring results.

Turbidity was slightly below the trigger limit at Pikes Creek on the downstream side. Upstream turbidity levels were higher, suggesting that works associated with construction of the Ravensworth Ash Line were not releasing sediment to the downstream side. No flow was observed at the time which suggests there was standing water which would adversely impact on monitoring results.