

Water Monitoring Report February 2023

SSD 9697 – Ravensworth Ash Line
Upgrade





AGL Macquarie Pty Limited
ABN 18 167 859 494
New England Highway
Muswellbrook NSW 2333
Private Mail Bag 2
Muswellbrook NSW 2333
t: 02 6542 0711
agl.com.au

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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 1-28 February 2023; 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	Pool	6.5-8.5	Pool	125-5438	Pool	6-50
Chilcotts Creek Downstream	Pool	6.5-8.5	Pool	125-5438	Pool	6-50
Pikes Creek Upstream	Dry	6.5-8.5	Dry	125-5438	Dry	6-50
Pikes Creek Downstream	Dry	6.5-8.5	Dry	125-5438	Dry	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

**Pool: No flow (stagnant water)*



2.2 Rainfall

Daily rainfall from the main site meteorological station is presented in **Table 2**. In February 2023 there was 1 recorded rainfall event of 20mm or more requiring rainfall event sampling to be undertaken.

Table 2 – Daily rainfall during the reporting period

Date	Rainfall (mm)
01/2/2023	-
02/2/2023	-
03/2/2023	-
04/2/2023	-
05/2/2023	-
06/2/2023	-
07/2/2023	-
08/2/2023	-
09/2/2023	6.8
10/2/2023	-
11/2/2023	-
12/2/2023	-
13/2/2023	-
14/2/2023	-
15/2/2023	-
16/2/2023	-
17/2/2023	-
18/2/2023	12.2
19/2/2023	0.2
20/2/2023	-



Date	Rainfall (mm)
21/2/2023	-
22/2/2023	41.6
23/2/2023	-
24/2/2023	-
25/2/2023	-
26/2/2023	-
27/2/2023	0.6
28/2/2023	0.2
Total	61.6 (mm)

2.3 Rainfall Results

Results for the reporting period are summarised in **Table 3**. Any results outside of criteria are highlighted.

Table 3: Rainfall 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	6.18	6.5-8.5	5640	125-5438	18	6-50
Chilcotts Creek Downstream	6.72	6.5-8.5	4040	125-5438	20	6-50
Pikes Creek Upstream	7.10	6.5-8.5	574	125-5438	10	6-50
Pikes Creek Downstream	7.13	6.5-8.5	1480	125-5438	39	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



3. Discussion

There were no representative sample results for February 2023 as all sites were either small stagnant pools or dry resulting in no samples being taken.

There was no flowing water found at the upstream and downstream of Chilcotts Creek. No flow suggests there was standing water which would adversely impact on monitoring results. Upstream and Downstream of Pikes Creek and Bayswater Creek were recorded dry during the reporting period. These results suggest that work associated with construction of the Ravensworth Ash Line did not contribute to any upstream and downstream levels.

Rainfall samples were collected during the reporting period. Most of the sites are within the trigger limit except for Electrical conductivity at Chilcotts Creek upstream. No flow was observed at the time which suggests there was standing water which would adversely impact on monitoring results. These results suggest that works associated with construction of the Ravensworth Ash Line did not contribute to any upstream and upstream levels.