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BAYSWATER POWER STATION UPGRADE

INDEPENDENT ENVIRONMENTAL AUDIT

for AGL Macquarie Pty Limited

20 April 2023

DOCUMENT CONTROL

Document Status

Version	Description	Reviewed By	Approved By	Date Issued
01	Independent Environmental Audit	DW	JB	20/04/23

Document Details

Project Name	Bayswater power station upgrade
Document Title	Independent Environmental Audit
Client	AGL Macquarie Pty Limited
Client Address	Locked Bag 14120 MCMC, Melbourne VIC 8001
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Our Reference	*230419 Bayswater Power Station Upgrade IEA*

LIMITATIONS OF REPORT

In preparing this Independent Environmental Audit on behalf of AGL Macquarie Pty Limited, James Bailey and Associates has assessed all activities appropriate and necessary to evaluate the environmental status of the site during the audit period. James Bailey and Associates has addressed all technical matters which might reasonably be considered to be relevant to such an audit conducted to standards which apply in New South Wales. Based on discussions with appropriate staff and a review of available documentation, it is James Bailey and Associates' opinion that the potential critical environmental issues associated with the site and operations are those discussed in this report. However, James Bailey and Associates can only advise on the basis of the information available to them and therefore cannot dismiss absolutely the possibility that parts of the site, or adjacent properties, may give rise to additional issues.

The conclusions presented in this report are professional opinions based solely upon James Bailey and Associates' interpretation of the documentation reviewed, interviews and conversations with personnel knowledgeable about the site and other available information, as referenced in this report. These conclusions are intended exclusively for the purposes stated herein, at the site listed, and for the project indicated.

This report does not, and does not purport to, give legal advice on the actual or potential environmental liabilities of any individual or organisation, or to draw conclusions as to whether any particular circumstances constitute a breach of relevant legislation.

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1. INTRODUCTION

1.1 BACKGROUND

James Bailey & Associates (JBA) has been commissioned by AGL Macquarie Pty Limited (AGL) to conduct an Independent Environmental Audit (IEA) of the Bayswater Power Station Upgrade project (SSD 9697).

Bayswater Power Station (Bayswater) is located south-east of Muswellbrook in the Local Government Areas (LGA) of Singleton and Muswellbrook. Bayswater was commissioned in 1985 and is currently owned and operated by AGL who acquired it from the New South Wales (NSW) Government in 2014.

State Significant Development (SSD) 9697 was granted partial consent on 18 February 2022 by the Executive Director, Energy, Resources and Industry Assessments. The project proposed works to ensure the ongoing operation of the power station for its remaining operational life and improve environmental outcomes including:

- Upgrades to increase ash recycling;
- Construction of a salt cake landfill facility;
- Construction of borrow pits;
- Ancillary works; and
- Water infrastructure upgrades.

SSD 6967 was granted consent except for seepage collection infrastructure upgrade and ash dam augmentation components of the application. **Figure 1** shows the concept layout of the project as approved under SSD 9697.

The IEA has been conducted generally in accordance with the NSW DPIE 'Independent Audit Post Approval Requirements May 2020' (IEA Guidelines).

1.2 AUDIT TEAM

The IEA was completed by Dorian Walsh (Certified Auditor Certificate Number: 201881) and Tegan Brown of JBA. No technical specialists were required to assist with the IEA.

A copy of the DPE endorsement of the IEA team is included in **Appendix A**. The Independent Environmental Audit Report Declaration for this IEA is included as **Appendix B**.

1.3 AUDIT OBJECTIVES

The IEA assesses AGL's activities during the audit period (see **Section 1.5**) and compliance with key regulatory approvals for the Project. The IEA assessed the status of conditions and commitments from:

- SSD 9697; and
- SSD 9697 management plans, strategies and programs.

1.4 AUDIT SCOPE

The IEA scope is specified under Schedule 2, Conditions D12 to D17 of SSD 9697 which is reproduced in **Table 1**.

1.5 AUDIT PERIOD

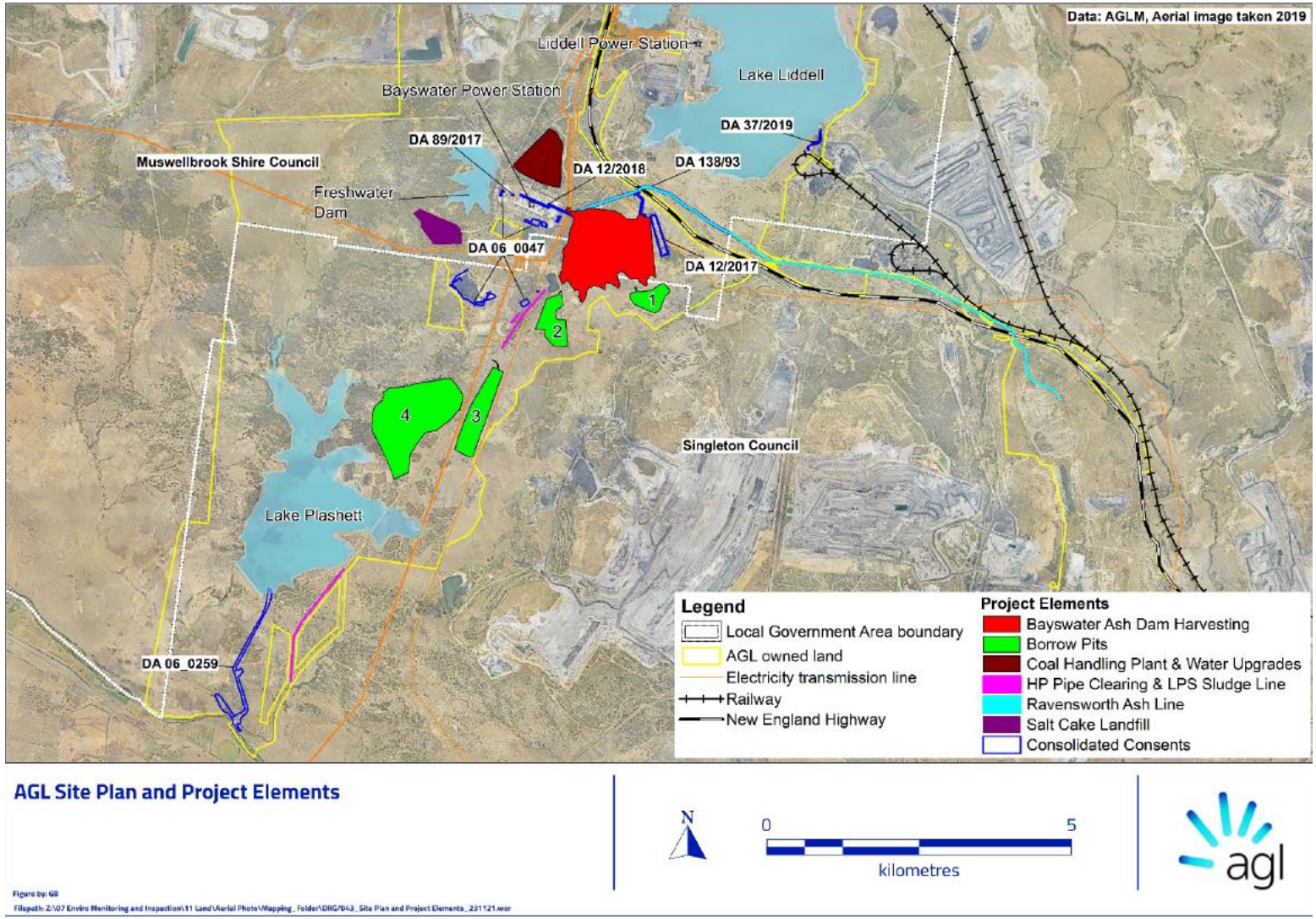
This IEA covers the period from 29 August 2022 (the commencement date of activities approved under SSD 9697) to 30 November 2022 (the audit period).

The IEA Guidelines describe the required frequency of auditing during the construction phase of SSD projects. This IEA was commissioned by AGL to meet the requirement for completion of an audit within 12 weeks of the commencement of construction.

Table 1 SSD 9697 IEA Requirements

Condition	Requirement	Report Section
Schedule 2 Condition D12	Independent Audits of the development must be conducted and carried out in accordance with the Independent Audit Post Approval Requirements (2020, or its latest version).	This IEA report
Schedule 2 Condition D 13	Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the commencement of an Independent Audit.	**Section 1.2** and **Appendix A**
Schedule 2 Condition D14	The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in the Compliance Reporting Post Approval Requirements (2020, or its latest version), upon giving at least 4 weeks' notice (or timing) to the Applicant of the date upon which the audit must be commenced.	N/A; no requests made by DPE to change IEA frequency
Schedule 2 Condition D15	In accordance with the specific requirements in the Independent Audit Post Approval Requirements (2020, or its latest version), the Applicant must:	Note only
Schedule 2 Condition D15 (a)	review and respond to each Independent Audit Report prepared under condition D12 of this approval, or condition D14 where notice is given by the Planning Secretary;	This IEA report; AGL to complete response to DPE
Schedule 2 Condition D15 (b)	submit the response to the Planning Secretary; and	N/A; AGL to complete
Schedule 2 Condition D15 (c)	make each Independent Audit Report, and response to it, publicly available within 60 days of submission to the Planning Secretary. unless otherwise agreed by the Planning Secretary.	N/A; AGL to complete
Schedule 2 Condition D16	Independent Audit Reports and the Applicant's response to audit findings must be submitted to the Planning Secretary within 2 months of undertaking the independent audit site inspection, as outlined in the Independent Audit Post Approvals Requirements (2020) unless otherwise agreed by the Planning Secretary.	N/A; AGL to complete
Schedule 2 Condition D17	Notwithstanding the requirements of the Independent Audit Post Approval Requirements (2020, or its latest version), the Planning Secretary may approve a request for ongoing independent operational audits to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that independent operational audits have demonstrated operational compliance.	N/A

Figure 1 SSD 9697 Project Layout



Source: Appendix 2, SSD 9697

2. AUDIT METHODOLOGY

2.1 OVERVIEW

This IEA was undertaken in accordance with the requirements of SSD 9697 (see **Section 1.4**) and the IEA Guidelines. **Appendix A** includes a copy of DPE endorsement for the IEA team (see **Section 1.2**) and confirmation over audit requirements.

The compliance status of AGL activities during the audit period was determined by assessment of key approval documents regulating site activities (see **Section 3.1**) and a desktop review of relevant plans, strategies, programs, monitoring data and correspondence. The desktop review was used as a basis for this IEA report and identified potential compliance issues that were verified during the site inspection and during interviews with key AGL personnel.

At the time of the audit, the project was in the construction phase, which informed the scope of the IEA desktop review and during the site inspection. AGL construction activities during the audit period were related to the development of the Ravensworth Ash Line component of the project, as shown on **Figure 1**.

The audit methodology also included consultation with the NSW Department of Planning and Environment (DPE), Environment Protection Authority (EPA), Muswellbrook Shire Council (MSC) and Singleton Council prior to the audit site inspection to seek any specific environmental issues that should be a focus of the IEA (see **Section 2.5**).

2.2 IEA PREPARATION

Preparation of the IEA involved:

- Submission of an information request to AGL for the provision of evidence to verify the compliance status of AGL activities during the audit period;
- Engagement with key regulatory agencies for the site, regarding any specific issues that should be a particular focus of the IEA;
- Submission of an audit agenda to AGL (see **Appendix E**) and confirmation over the scope of the site inspection component of the IEA;
- Desktop review of documentation provided by AGL to determine the compliance status of approval conditions, identify good site practice and opportunities for improvement, in accordance with the requirements of the IEA Guidelines; and
- Preparation of compliance tables and protocols for the site inspection, including a checklist of specific regulatory requirements obtained from documents provided.

2.3 COMPLIANCE EVALUATION

The IEA consisted of a detailed desktop review of approval documentation and a site inspection. The findings of this IEA were based on verifiable evidence collected by:

- Review of documentation provided by AGL (including document reference, revision numbers, dates and authors);
- Interviews with key site personnel; and
- Inspection of the Bayswater Power Station Upgrade site, activities and processes on 30 November 2022. Selected images taken during the site inspection are included as **Appendix F**.

James McNamara of AGL was the primary contact for the audit and was present during the audit site inspection. A list of the key documentation reviewed for the IEA is found in **Section 3.1**. The evidence that was used to determine the compliance status of each condition and recommended opportunities for improvement, as documented **Section 3**, **Section 4** and in **Appendix C**.

2.4 SITE INSPECTION

A physical site inspection of SSD 9697 construction activities completed during the audit period was conducted on 30 November 2022 and undertaken to ensure that all aspects of environmental management and performance of the Project were reviewed.

2.4.1 Opening Meeting

The IEA site inspection commenced with an opening meeting; attendees included Dorian Walsh (JBA), Tegan Brown (JBA), James McNamara (AGL) and Rodney Harrison (AGL). The briefing included clarification of the audit objectives, scope, resources required and the methodology of the IEA.

2.4.2 Site Overview and Orientation Session

An orientation session was conducted by AGL site personnel to provide JBA with a general overview of the Project and its surroundings, an indication of the environmental setting, near neighbours, safety and emergency requirements and known environmental issues.

2.4.3 IEA Interviews

The IEA included interviews with key AGL and AGL contract personnel involved with the management and construction of the Project. The IEA interviews during the site inspection were conducted to assist with verifying the compliance status of the Project. AGL employees interviewed as part of the IEA included:

- James McNamara (Senior Environment Advisor); and
- Rodney Harrison (Senior Project Specialist).

2.4.4 Focused Site Inspection

A focused site inspection was conducted following the initial site overview and opening meeting. The purpose of the site inspection was to focus on specific operation and environmental aspects of the Project and to assess AGL environmental management systems and performance in detail.

2.4.5 Site Documentation Review

Relevant site documentation was reviewed with AGL personnel during the site inspection interviews to verify compliance. Key documents reviewed included SSD 9697, Environment Protection Licence (EPL) 779, monitoring results, correspondence with regulatory agencies, Environmental Management Plans and Standard Operating Procedures (SOPs).

2.4.6 Follow Up Auditing

Follow up interviews and document reviews were conducted to clarify any outstanding compliance issues and evidence required for inclusion in the final IEA report.

2.4.7 Exit Briefing

An exit briefing was conducted prior to JBA departure from the site. Attendees of exit briefing included Dorian Walsh, Tegan Brown and James McNamara. The exit meeting included discussion of preliminary audit findings, recommendations and explanation of actions required by AGL and by JBA to complete the process required under the IEA Guidelines.

2.5 AUDIT CONSULTATION

Consultation was undertaken with the DPE, EPA, Muswellbrook Council and Singleton Council in December 2022 to obtain their input into the scope of the IEA (see **Appendix D**). No specific issues were raised by DPE or EPA. Responses received from MSC and Singleton Council are provided in **Table 2**.

Table 2 Feedback from Regulatory Consultation

Comment	Response
Muswellbrook Council	
Muswellbrook Council requested that the following would be addressed within the IEA:	Note only.
The ash line constructed under DA 1993-138 was proposed to be replaced as part of SSD 9697. The location of the pipe is shown in the attached. Please confirm that this has occurred.	The SSD 9697 Ravensworth Ash Line was under construction at the time of this IEA. SSD 9697, Schedule 2, Condition A6 requires that DA 138/93 is surrendered within 12 months of the date of commencement of development. Development of the SSD 9697 Ravensworth Ash Line commenced on the 29 August 2022.
Cond 7 of DA 1993-138 states the following: *The applicant shall ensure that the quality of the water within Lake Liddell is not deteriorated detrimentally as a result of any waters being returned from this development to the Lake.* Please confirm how this condition is being addressed.	Lake Liddell flows are monitored at EPL Licensed discharge point LDP08. The AGL Bayswater Power Station Ravensworth Ash Line – Water Management Plan, Construction describes the water concentration limits as defined by EPL 779 and water management measures to minimise potential impacts to surface water and hydrology. The site inspection confirmed that appropriate control measures such as sediment fences and stockpile management are in place to reduce impacts to surface water during construction of the Ravensworth Ash Line (see **Appendix C**).
Cond 12 of DA 1993-138 states the following: *The two Aboriginal sites and the artefact identified by the SEE is to be isolated and roped off to avoid any disturbance during construction. Employees conducting the proposed works must be informed of the existence and location of the heritage items which are not to be disturbed without the necessary approvals.* Unfortunately, the location of the two Aboriginal sites are not shown in the Macquarie Generation 'Fly Ash Disposal Upgrade Baywater Power Station SEE'. Section 3.4.1 of the SEE states "during the original archaeological survey for the ash slurry and return water pipelines two Aboriginal sites and an isolated artefact were located". Council records for the 1993 approval were not available to be reviewed for this audit as they are located off-site. Records will be recalled if sufficient detail of the Aboriginal sites are not included in the Aboriginal Cultural Heritage Management Plan. Please confirm these two sites are included in any Aboriginal Cultural Heritage Management Plan.	Section 3.0 of the SSD 9697 Aboriginal Cultural Heritage Management Plan (ACHMP) describes one Aboriginal archaeological site in proximity to the SSD 9697 Ravensworth Ash Line, comprising a subsurface artefact scatter (Bays AS and PAD 19 (AHIMS ID 37-3-1597)). The ACHMP notes that AECOM's ACHAR (2020) indicated a second Aboriginal site would be impacted by the project (BAYS PAD 18), however it was determined that this site could be avoiding as part of the detailed design works and no impacts would occur to this site (see **Appendix C**).

Comment	Response
Note - The location of the Baywater Ash dam Overland Water Pipeline is incorrectly shown in Appendix 2 of SSD 9697. See attached for approved location.	Noted.
AGL have not yet commenced construction of this pipeline. A Construction Certificate has been issued. Council Officers are awaiting the return of the completed Performance of Certification Work agreement prior to works commencing. Please recommend that 'Performance of Certification Work' form is completed and returned to Council prior to commencement of works and that all relevant conditions from DA 2018-12 are implemented during construction.	Construction of the Ravensworth Ash Line commenced on the 29 August 2022. SSD 9697, Schedule 2, Condition A6 requires that DA 12/2018 is surrendered within 12 months of the date of commencement of development. Correspondence from AGL to DPE dated 3 August 2022 refers to a meeting between the two parties on 20 July 2022 and confirms that the need to obtain construction and occupation certificates is not relevant to the Ravensworth Ash Line component of the project. Other elements of the project had not commenced at the time of audit.
Please ensure management commitments from DA 2018-12 are included in relevant management plans.	SSD 9697 and associated commitments prevail over DA 12/2018 from the commencement of construction. Construction of the pipeline commenced on 29 August 2022.
Cond D10 requires the Applicant to make each Compliance Report publicly available within 60 days of submitting it to the Planning Secretary, unless otherwise agreed by the Planning Secretary. Please provide a summary of how AGL intends to report under Cond D10, i.e. will the report be available on the public website. If available, please also confirm the date of submission for the first Compliance Report.	Compliance reporting for the project is required to be completed within a year of project commencement, in accordance with the DPE (2020) Compliance Reporting Post Approval Requirements. Compliance reports for the project will be published on the AGL website within 60 days of submission to DPE.
Singleton Council	
Singleton Council is not aware of any specific environmental issues associated with this operation. If you require input from Council during the audit process please let us know.	No response required.

2.6 COMPLIANCE STATUS DESCRIPTORS

The compliance status of each condition reviewed during the IEA was assessed based on evidence provided and determined in accordance with the descriptors provided in the IEA Guidelines. No other terms have been used to describe the compliance status of obligations assessed within this IEA.

3. AUDIT FINDINGS

3.1 APPROVAL AND DOCUMENT LIST

AGL documentation for the IEA was sighted during a detailed desktop review and the audit site inspection of 30 November 2022. Approvals and documents assessed during the audit were related to:

- SSD 9697 approval conditions;
- SSD 9697 Statement of Commitments;
- SSD 9697 environmental management plans and procedures;
- AGL environmental monitoring data; and
- AGL correspondence with regulatory agencies and other records of consultation.

The tables included as **Appendix C** discuss the documentation that was used to determine compliance with the conditions of the Projects approvals and licensing assessed during the IEA.

3.2 COMPLIANCE PERFORMANCE

Table 3 provides a summary of compliance for key AGL approvals and licensing during the audit period. A description of each identified non-compliance is provided in **Section 3.4** and **Appendix C**.

Table 3 Summary of Compliance

Document	C	NC	NT	Total
SSD 9697	36	6	44	86
SSD 9697 Statement of Commitments	41	7	34	82

3.3 SUMMARY OF AGENCY NOTICES AND ORDERS

Table 4 provides a summary of agency notices, orders, penalty notices and prosecutions issued during the audit period that were identified in this IEA. Further discussion regarding each notice and any follow-up actions is provided against the relevant conditions in **Table 4**.

Table 4 Summary of Notices and Orders from Regulatory Agencies

Type	Date	Summary
Liddell Battery and Bayswater Ancillary Works – Notification of physical commencement	13 September 2022	The email from DPE acknowledges receipt of the notification of physical commencement for the Liddell Battery and Bayswater Ancillary Works project (SSD 9697).

3.4 NON-COMPLIANCES DURING THE AUDIT PERIOD

Table 5 lists the non-compliances identified during the audit period. Recommendations made in relation to these non-compliances are provided in **Section 4,** with further context provided on each in **Appendix C**.

Table 5 IEA Non-Compliances

Ref	Non-Compliance
SSD 9697	
Schedule 2, Condition A2(a)	Non-compliances with SSD 9697 conditions were identified during this IEA and described below and in **Appendix C.**
Schedule 2, Condition B12(e)(iv)	The Biodiversity Management Plan (BMP) does not include comments on the management of seed collection and propagation.
Schedule 2, Condition D13	Written approval from DPE for JBA to complete the audit occurred after commencement of this IEA.
Schedule 2, Condition D16	This IEA report and AGL response to audit findings were submitted to DPE at a period greater than the two months required under SSD 9697.
Schedule 2, Condition D18(a)(v) , Schedule 2, Condition D18(b)	Current environmental performance reporting for the project was not available on the AGL website at the time of the audit.
Schedule 2, Condition D18(a)(vi) , Schedule 2, Condition D18(b)	Current environmental monitoring results for the project were not available on the AGL website at the time of the audit.
Schedule 2, Condition D18(a)(ix), Schedule 2, Condition D18(b)	The complaints register was not able to be accessed on the AGL website at the time of the audit.
SSD 9697 EIS Commitments	
BD05	Records were not available to demonstrate that the identification and mapping of weed infestations within the Ravensworth Ash Line corridor had been completed prior to construction commencement.
SW01	The CEMP does not include measures to manage groundwater dewatering and associated impacts expected from later stages of the project (none are required for the Ravensworth Ash Line component).
SW01	The CEMP does not include measures to manage potential saline soils.
SW03	Water use records for SSD 9697 construction were not available at the time of audit.
SE1	The Traffic Management Plan does not consider the timing of key tourist activities and events in the planning of major haulage tasks.
HR1	Evidence that an AGL Management of Change Process was completed for the project was not available at the time of audit.
HR2	Non-compliance notes against commitment HR1.

3.5 ENVIRONMENTAL PERFORMANCE

3.5.1 Site Inspection Summary

The site inspection of 30 November 2022 included a review of the status of the Ravensworth Ash Line component of SSD 9697, as shown on **Figure 1**. This was the only element of the project that had commenced construction during the audit period. Selected images taken during the site inspection are included as **Appendix F**.

The inspection found that the Ravensworth Ash Line construction site is being maintained to a high standard. Waste generated from the project is being disposed of by a licenced waste contractor and chemicals are stored in appropriate bunded areas. Waste management for the project is further discussed in **Section 3.5.3**.

Suitable equipment to respond to any fires on site were identified during the site inspection. This included portable fire extinguishers which are tagged six monthly and a fire suppression trailer and water cart.

3.5.2 Environmental Management Documents

The adequacy of AGL environmental management documents for the project and the implementation of these plans was reviewed as a component of this IEA.

In general, the review of the environmental management documentation found that AGL is operating to a good level of compliance with the environmental procedures and systems required under SSD 9697. Management plans reviewed included the SSD 9697 ACHMP, BMP, CEMP, Environmental Management Strategy, Water Management Plan and AGL Pollution Incident Response Management Plan (PIRMP).

As requested by MSC, a review of the ACHMP was undertaken as part of the IEA to ensure the Aboriginal sites and the artefact identified by the SEE are considered and appropriately managed in the field. The desktop review completed as part of this IEA confirmed the ACHMP describes one Aboriginal archaeological site, comprising a subsurface artefact scatter (Bays AS and PAD 19 (AHIMS ID 37-3-1597)). The ACHMP also notes that AECOM's ACHAR (2020) indicated a second Aboriginal site would be impacted by the project (BAYS PAD 18), however it was determined that this site could be avoiding as part of the detailed design works and no impacts would occur to this site. The location of known heritage sites was found to be clearly delineated in the field during the audit site inspection.

Non-compliances identified in relation to the projects management plans are considered to be minor and are listed in **Table 5**.

3.5.3 Waste Management

Schedule 2, Condition B19 requires AGL to dispose of all waste at appropriately licensed waste facilities and manage on-site sewage treatment and disposal in accordance with the requirements of MSC. To assess compliance with this condition, waste dockets and waste contractor reports were reviewed, which confirms that waste generated by the SSD 9697 construction activities is being transported for disposal at licensed waste facilities.

Although a stand-alone Waste Management Plan is not required under SSD 9697, a Waste Management Strategy is provided within the EMS as part of the overarching strategy for the project construction phase. The Waste Management Strategy is also incorporated into the CEMP. The desktop review confirmed that waste generated from the project is managed by Monadelphous (the project construction contractor appointed by AGL).

The site inspection also confirmed that chemicals used for the project were being appropriately stored in a bunded area at the time of the audit. No chemicals for the project were observed to be outside of bunding during the site inspection.

Segregated skip bins were sighted at the time of the site inspection for general waste, recycling and scrap metal.

3.5.4 Operation of Plant and Equipment

Schedule 2, Condition A17 of SSD 9697 requires all plant and equipment used on site, or to monitor the performance of the development to be maintained in a proper and efficient condition and operated in a proper and efficient manner.

The desktop review confirmed that maintenance of plant and equipment for the project is completed by contractors. Copies of service history sheets were available at the time of the audit for a number of project plant and equipment.

Weed and pest free inspection forms were also sighted during the desktop review, confirming that vehicles, machinery and plant have been cleaned, inspected and free of any weeds, seeds, pathogens and pests.

Contractors working on the project complete inductions which covers safe operation of plant and equipment. The desktop review also confirmed that Monadelphous is completing Job Hazard Analysis (JHA) documents for project jobs.

3.5.5 Air Quality

No air quality issues were identified at the site during the IEA. The site inspection confirmed that tracks were well maintained with minimal potential for dust generation at the time of the audit. It was verified that signage is in place on site to limit traffic speed to 40 km/hr to reduce the risk of dust emissions. A watercart was observed during the site inspection which is used for dust suppression.

During the desktop review a copy of the AGL Rapid Induction dated 28 April 2022 was sighted. This induction is completed by contractors prior to work onsite and describes dust mitigation measures required for the project.

No offensive odours were detected on site during the IEA site inspection.

Discussions with AGL key personnel and review of the complaints register confirmed that no complaints have been received during the audit period in relation to air quality.

3.5.6 Aboriginal Heritage

Desktop review confirmed that AGL has developed an ACHMP for the Ravensworth Ash Line component of the upgrades works which has been approved by the DPE. The ACHMP was prepared in consultation with Heritage NSW and Registered Aboriginal Parties (RAPs), as required under Schedule 2, Condition B26 of SSD 9697. The draft ACHMP was distributed to RAPs in April 2022 for consultation and comment. RAPs were provided with a minimum 28-day period to provide comment on the plan, one written response was received in relation to the draft ACHMP.

The ACHMP has been developed to provide protocols to assist AGL personnel and on-site contractors in managing the identified Aboriginal heritage values of the ACHMP area. Discussions with key AGL personnel and the site inspection confirmed that areas identified as an Aboriginal site have been closed off for access. The site inspection confirmed that 'No-Go' signage and tape is used to identify and prevent access to Aboriginal cultural heritage areas.

Contractors that are working on the project complete site inductions which note restricted access to areas of Aboriginal Cultural significance. The AGL Macquarie Cultural Heritage Induction - Ravensworth Pipeline Cultural Heritage Induction describes legislative requirements, cultural heritage, unexpected finds and human skeletal remains procedures.

Section 4 of the ACHMP describes management of Aboriginal cultural heritage values, including unanticipated finds protocols for Aboriginal objects/places and human skeletal remains. Discussions with key AGL personnel confirmed that there have been no unexpected finds during clearing within the audit period.

3.5.7 Environmental Incidents

No environmental incidents requiring notification to regulatory agencies were recorded during the audit period.

3.5.8 Environmental Complaints

The review of the AGL Complaints Register and discussions with AGL employees found that no community complaints were received regarding the project during the audit period.

3.5.9 Environmental Impact Comparison

A desktop review of the Environmental Impact Statement (EIS) prepared to support SSD 9697 was completed as part of the IEA and compared to AGL documentation and monitoring data for the audit period. A comparison with observed impacts was also undertaken during the site inspection, which found that the site project has been operating generally in accordance with the conditions of SSD 9697.

The projects EIS noted that during the construction phase of the project, potential impacts to water quality and hydrology could occur following construction activities. The site inspection of the Ravensworth Ash Line construction area confirmed that adequate mitigation measures have been put in place to minimise the risks of increased erosion and sedimentation, discharge of sediment-laden water, potential for spills and leaks of chemicals, petroleum, oils and other toxicants.

It is noted within the EIS that direct impacts of the Project will occur during the construction phase during clearing works. During the desktop review, a report documenting an ecological inspection undertaken to ensure that appropriate management measures were in place prior to construction was sighted, consistent with the approved BMP. This includes the identification of habitat features and delineation of avoidance areas to minimise impacts to biodiversity.

The main potential air quality impacts noted within the EIS during construction were described to be associated with the disturbance of dust and particulates. The site inspection found that the pipeline access tracks were well maintained with minimal potential for dust generation at the time of the audit. A watercart and 40 km/hr speed limit signs were also sighted during the inspection.

Earthworks associated with the construction of the Ravensworth ash pipeline was considered to have the potential to generate noise and vibration within the EIS. Construction work for the project only occurs within the approved hours with plant and machinery maintained and operated in accordance with manufacturers specifications. Records were not available at the time of the audit as evidence that construction activities are conducted during approved hours of construction, a recommendation has been made in **Table 6** to retain this information.

The review of SSD 9697 EIS commitments completed for this IEA is detailed in **Appendix C**.

4. RECOMMENDATIONS

A summary of the non-compliances with AGL licences and approvals identified during the audit period is provided in **Table 5**. Recommendations made in relation to these non-compliances, as well as general opportunities identified to improve AGL's environmental performance, are provided in **Table 6**.

Table 6 IEA Recommendations

Ref	Recommendation Description
SSD 9697 Non-Compliance Recommendations	
Schedule 2, Condition A2(a)	Recommendations in relation to each non-compliance are provided against the relevant conditions below.
Schedule 2, Condition B12(e)(iv)	It is recommended that the BMP is reviewed and updated to information on seed collection and propagation for future stages of the project.
Schedule 2, Condition C3	It is recommended that AGL completes and documents their internal monthly environmental audits and retains the relevant documentation.
Schedule 2, Condition D13	It is recommended that AGL obtains an endorsement letter for the proposed audit team from the DPE prior to next audit.
Schedule 2, Condition D16	It is recommended that AGL submit this IEA report and their response to DPE as soon as possible following completion of the audit, given that a period greater than two months from the date of the site visit has elapsed.
Schedule 2, Condition D18(a)(v), Schedule 2, Condition D18(a)(vi), Schedule 2, Condition D18(a)(ix), Schedule 2, Condition D18(b)	It is recommended that all information and documents (as they are obtained, approved or as otherwise stipulated within the conditions of this consent) noted in Condition D18 of SSD 9697 are made publicly available on the AGL website.
SSD 9697 General Improvement Recommendations	
Schedule 2, Condition A17(b)	It is recommended that the risk rating and acknowledgement of understanding sections are completed on all JHA documents.
Schedule 2, Condition B7(g)(iii)	It is recommended that the inspection of sediment control structures prior to and following significant rain events of more than 20 mm and monthly environmental audits of project erosion and sediment controls are completed and documented.
Schedule 2, Condition B18	It is recommended that contractor records are retained to confirm that construction activities are completed within approved hours of operation.
Schedule 2, Condition B34(c)	It is recommended that measures for rehabilitation of the pipeline corridor disturbance are included in the project Rehabilitation Strategy.
Schedule 2, Condition B36(a)	It is recommended that: • Asset protection access for the Ravensworth Ash Pipeline is maintained during and post-construction, generally in accordance with RFS (2019); and • Regular checks of portable fire equipment and chemical storage areas required for the project are completed and documented.
Schedule 2, Condition C1(b)	It is recommended that a reference to the BMP mapping for environmentally sensitive sites is incorporated into the CEMP.

Ref	Recommendation Description
Schedule 2, Condition C1(b)	It is recommended AGL review and update the CEMP to outline the project stages that are expected to require heavy vehicle movements and associated management measures in the Traffic Management Plan will be implemented.
Schedule 2, Condition C1(b)	It is recommended that project water use information is collated and maintained for internal purposes, in accordance with Section 4.3 of the CEMP.
Schedule 2, Condition D1(d)(iv)	It is recommended that AGL review and update the Ravensworth Compliance Register to provide an identification number for each approval obligation.
SSD 9697 EIS Commitment Non-Compliance Recommendations	
BD05	It is recommended that records for weed infestations within the Ravensworth Ash Line construction footprint are monitored by AGL and any required treatment actions documented. Baseline monitoring for the presence of weeds should be completed prior to the commencement of construction for other approved components of the SSD 9697 project.
SW01	It is recommended that the CEMP is reviewed and updated to include contingency measures to manage groundwater dewatering and impacts for the various project stages.
SW01	It is recommended that the CEMP is reviewed and updated to include measures to manage potential saline soils.
SE1	It is recommended that a traffic management plan is reviewed and updated to consider the timing of key tourist activities and events.
HR1, HR2	It is recommended that a Management of Change process is completed for the project, in accordance with the relevant AGL Standard.
SSD 9697 EIS Commitment General Improvement Recommendations	
D03	It is recommended that potential seismic risks for future stages of the project are considered and that associated environmental management plans are updated by AGL, as required.
AQ01	It is recommended that the Daily Checks Sheet is reviewed and updated to include inspections for dust emissions.

APPENDIX A

ENDORSEMENT OF IEA TEAM

Department of Planning and Environment

James McNamara
Senior Environment Advisor
AGL Macquarie Pty Limited
Wonnarua Country
New England Highway
Muswellbrook NSW 2333

06/12/2022

Dear Mr McNamara

Bayswater Power Station Upgrade (SSD-9697)
Proposed Independent Auditors

I refer to your request (SSD-9697-PA-16) for the Secretary's approval of suitably qualified persons to prepare an Independent Environmental Audit (IEA) report for the Bayswater Power Station Upgrade (SSD-9697).

The Department of Planning and Environment (the department) has reviewed the nominations and information you have provided and is satisfied that these experts are suitably qualified and experienced. Consequently, I can advise that the Secretary approves the appointment of James Bailey & Associates to prepare the initial IEA report for the construction phase of the project.

In accordance with Schedule 2 Condition D13 of SSD-9697 (the consent) and the Independent Audit Post Approval Requirements (2020), the Secretary has agreed to the following audit team:

- Dorian Walsh, Lead Auditor; and
- Tegan Brown, Audit Assistant.

Please ensure this correspondence is appended to the IEA report.

The Independent Audit must be prepared, undertaken and finalised in accordance with the Independent Audit Post Approval Requirements (2020). Failure to meet these requirements will require revision and resubmission.

Should you wish to discuss the matter, please contact Jennifer Sage, Senior Compliance Officer on 0400 245 170 or compliance@planning.nsw.gov.au.

Yours sincerely

Heidi Watters
Team Leader Northern
Compliance

As nominee of the Planning Secretary

APPENDIX B

IEA DECLARATION

Independent Environmental Audit Report Declaration	
Project Name:	Bayswater Power Station, Liddell Power Station
Consent No.:	SSD 9697
Description of Project:	Bayswater Power Station Upgrade Project (SSD 9697)
Project Address:	Off New England Highway, Muswellbrook NSW, 2333
Proponent	AGL Macquarie Pty Limited
Proponent Address:	200 Level 24 George Street, Sydney NSW, 2000
Title of Audit:	AGL Macquarie Independent Environmental Audits
Date:	07/03/2023
Declaration	I declare that I will undertake the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge: i. the audit will be undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Compliance Requirements* (Department 2020); ii. the findings of the audit will be reported truthfully, accurately and completely; iii. I will exercise due diligence and professional judgement in conducting the audit; iv. I will act professionally, objectively and in an unbiased manner; v. I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child; vi. I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child; vii. neither I nor my employer have provided consultancy services for the audited project that is subject to this audit except as otherwise declared to the Department prior to the audit; and viii. I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so. Notes: a) Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000; and b) The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both.
Name of Auditor:	Dorian Walsh Tegan Brown
Signature:	
Auditor Qualification	Auditor for Environmental Management, EMS and Compliance Audits. Exemplar Global No. 201881
Name of Auditor	Tegan Brown
Company:	James Bailey & Associates
Company Address:	6/127-129 John Street, Singleton NSW 2330

APPENDIX C

IEA COMPLIANCE TABLES

Table C1 Project Approval SSD 9697

Cond	Project Approval SSD 9697	Status	Evidence
SCHEDULE 2, PART A: ADMINISTRATIVE CONDITIONS			
OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT			
A1	In addition to meeting the specific performance measures and criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from the construction and operation of the development, and any rehabilitation required under this consent.	C	A review of AGL records and inspection of the project site found that reasonable and feasible controls are in place to minimise the potential environmental impacts of site operations. Comments on AGL environmental controls are provided under the relevant conditions below.
TERMS OF CONSENT			
A2	The development may only be carried out:		
	(a) in compliance with the conditions of this consent;	**NC**	**Non-compliances (NC) with SSD 9697 conditions were identified during this IEA.** Findings and recommendations in relation to each non-compliance are provided against the relevant conditions below.
	(b) in accordance with all written directions of the Planning Secretary;	C	JM (pers comms) confirmed that no written directions have been made by DPE.
	(c) generally in accordance with the EIS; and	C	A review of AGL documentation found that the project is operating generally in accordance with the EIS.
	(d) generally in accordance with the Development Layout. *Note: The general layout of the development is shown in Appendix 2.*	C	The site layout is generally consistent with the general development layout shown in Appendix 2 of SSD 9697.
A3	Consistent with the requirements in this consent, the Planning Secretary may make written directions to the Applicant in relation to:	NT	JM (pers comms) confirmed that no requests have been made by DPE.

Cond	Project Approval SSD 9697	Status	Evidence
	(a) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the Planning Secretary; and		
	(b) the implementation of any actions or measures contained in any such document referred to in paragraph (a).	NT	See Schedule 2, Condition A3 (a) above.
A4	The conditions of this consent and directions of the Planning Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and the document/s listed in condition A2(b). In the event of an inconsistency, ambiguity or conflict between any of the document/s listed in condition A2(b), the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.	NT	No inconsistencies identified during the audit period.
PARTIAL CONSENT			
A5	The Applicant must obtain further approval from the Planning Secretary for the ash dam augmentation and seepage collection infrastructure upgrade components of the application. To obtain approval for ash dam augmentation and seepage collection infrastructure upgrade components of the application, the Applicant must prepare an updated Surface and Groundwater Assessment to the satisfaction of the Secretary, in consultation with the EPA. The updated Surface and Groundwater Assessment must: (a) characterise the condition of the receiving waterways in the context of the existing ash dam and be informed by water quality monitoring;	NT	JM (pers comm) confirmed ash dam augmentation and seepage collection infrastructure upgrade components of the approval have not commenced.
	(b) include updated water balance modelling;	NT	See Schedule 2, Condition A5 (a) above.
	(c) provide detail regarding the mitigation measures that would be implemented to manage potential pollution impacts, including measures to avoid, minimise or mitigate overflows from the ash dam; and	NT	See Schedule 2, Condition A5 (a) above.
	(d) identify the residual impacts of the ash dam augmentation and seepage collection infrastructure upgrade on receiving waters.	NT	See Schedule 2, Condition A5 (a) above.
SURRENDER OF EXISTING CONSENTS			
A6	Within 12 months of the date of commencement of development under this consent, or other timeframe agreed by the Planning Secretary, the Applicant must surrender the following development consents in accordance with the EP&A Regulation: (a) 138/93 (MSC)	NT	12 months has not elapsed since the date of commencement of SSD 9697 (see Schedule 2, Condition A8).
	(b) 12/2017 (MSC)	NT	See Schedule 2, Condition A6 (a) above.

Cond	Project Approval SSD 9697	Status	Evidence
	(c) 89/2017 (MSC)	NT	See Schedule 2, Condition A6 (a) above.
	(d) 12/2018 (MSC)	NT	See Schedule 2, Condition A6 (a) above.
	(e) 06_0047 (Planning Secretary)	NT	See Schedule 2, Condition A6 (a) above.
	(f) 06_0259 (Planning Secretary) Notes: Condition A6 does not extend to the surrender of construction or occupation certificates for existing and proposed building works under former Part 4A or Part 6 of the EP&A Act (as Part 6 applies from 1 September 2018). The surrender required by this condition should not be understood to mean that works legally constructed under a valid consent or approval can no longer be legally maintained or used.	NT	See Schedule 2, Condition A6 (a) above.
A7	Upon the date of commencement of development under this consent, and before the surrender of the existing development consents specified in condition A6, the conditions of this consent prevail to the extent of any inconsistency.	C	JM (pers comms) confirmed that the project is operating under SSD 9697.
NOTIFICATION OF COMMENCEMENT			
A8	At least two weeks prior to the commencement of the following activities, the Applicant must notify the Department in writing of the date of commencement of: (a) physical commencement of the development;	C	Sighted AGL letter to DPE dated 22 July 2022 that notes pre-construction activities and physical works are scheduled to commence for the Ravensworth Ash Line upgrade project on Monday 22 August 2022. Sighted DPE letter to AGL dated 27 July 2022 which acknowledges that AGL Macquarie Pty Limited intended to commence construction of the Ravensworth Ash Line Upgrade on or after 22 August 2022. Email from Keith Simkin (AGL Environmental Operations Contractor) to JBA dated 23 October 2022 notes that the development commenced on 29 August 2022.
	(b) pre-construction activities;	C	See Schedule 2, Condition A8 (a) above.

Cond	Project Approval SSD 9697	Status	Evidence
	(c) construction of the Ravensworth ash pipeline(s);	C	See Schedule 2, Condition A8 (a) above.
	(d) construction of the salt cake landfill; and	NT	JM (pers comms) confirmed that construction of the salt cake landfill has not occurred within the audit period.
	(e) construction of the coal handling plant area upgrades.	NT	JM (pers comms) confirmed that construction of the coal handling plant area upgrades has not occurred within the audit period.
EVIDENCE OF CONSULTATION			
A9	Where conditions of this consent require consultation with an identified party, the Applicant must: (a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval; and	C	Sighted DPE letter of 16 August 2022 approving the 'Ravensworth – Bayswater Ash Line Construction Environmental Management Plan AGLM-CPG-049-RPT-009', dated 16 August 2022 (CEMP). The DPE approval letter notes that the CEMP (see Schedule 2, Condition C1) has been prepared in consultation with the NSW Environment Protection Authority, Muswellbrook Shire Council and Singleton Council. Sighted DPE letter of 17 August 2022 approving the 'Bayswater Power Station Ravensworth Ash Line Water Management Plan – Construction (Rev 1, dated 11 August 2022)' for Stage 1 (WMP). DPE approval letter notes that the WMP has been prepared in consultation with the NSW Environment Protection Authority and the NSW Natural Resources Access Regulator (see Schedule 2, Condition B7). Sighted DPE letter of 17 August 2022 approving the 'Bayswater WOAOW Environmental Management Strategy (dated 11 August 2022)'. DPE approval

Cond	Project Approval SSD 9697	Status	Evidence
			letter notes that the BMP has been prepared in consultation with the Department's Biodiversity, Conservation and Science Directorate (see Schedule 2, Condition B12). Sighted DPE letter of 17 August 2022 approving the 'Biodiversity Management Plan (BMP) Ravensworth – Bayswater Ash Line Upgrade (dated 5 August 2022)'. DPE approval letter notes that the Stage 1 BMP [for the Ravensworth Pipeline] has been prepared in consultation with the Department's Biodiversity, Conservation and Science Directorate (see Schedule 2, Condition B12). Sighted DPE letter of 8 August 2022 approving of the 'Bayswater Power Station Ravensworth Ash Line Aboriginal Cultural Heritage Management Plan (Rev 1, dated 2 August 2022)' for stage 1 (ACHMP). The DPE approval letter notes that the plan has been prepared in consultation with Heritage NSW and Registered Aboriginal Parties (RAPs) (see Schedule 2, Condition B29).
	(b) provide details of the consultation undertaken including: (i) the outcome of that consultation, matters resolved and unresolved; and (ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.	C	See comments in Schedule 2, Condition A9 above.
STAGING, COMBINING AND UPDATING STRATEGIES, PLANS OR PROGRAMS			
A10	With the approval of the Planning Secretary, the Applicant may: (a) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating	C	Viewed AGL letter to DPE dated 3 August 2022 requesting approval that the following management plans can be submitted on a staged basis for Stage 1

Cond	Project Approval SSD 9697	Status	Evidence
	the strategy, plan or program);		only [i.e. construction and operation of a new coal ash pipeline to Ravensworth Void No. 3 for ash emplacement]: • Condition A16(b) – Subsidence Plans; • Condition B7 – Water Management Plan; • Condition B12 – Biodiversity Management Plan; • Condition B29 – Aboriginal Cultural Heritage Management Plan; and • Condition C1 – Construction Environmental Management Plan. Sighted DPE letter to AGL dated 5 August 2022 that notes DPE approval of the staging of the management plans outlined in the AGL letter of 3 August 2022, agrees that the WMP may be lodged without addressing the requirements not relevant to Stage 1 as outlined in the letter, and endorses the members of project team from AECOM Australia Pty Ltd as suitably qualified and experienced to prepare the WMP for Stage 1 of the development.
	(b) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined); and	NT	JM (pers comms) confirmed that no strategy, plan or program has been combined.
	(c) update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).	NT	JM (pers comms) confirmed that no strategy, plan or program has been combined.
A11	If the Planning Secretary agrees, a strategy, plan or program may be staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this consent.	C	See Schedule 2, Condition A10 (a) above.
A12	If the Planning Secretary agrees, a strategy, plan or program may be staged without addressing	C	Sighted DPE letter to AGL dated 5 August

Cond	Project Approval SSD 9697	Status	Evidence
	particular requirements of the relevant condition of this consent if those requirements are not applicable to the particular stage.		2022 approving that the WMP may be submitted in stages. The DPE letter notes that the WMP can be lodged without addressing the requirements for the plan that are not relevant to Stage 1 of the SSD 9697 development as outlined in the 3 August 2022 (see Schedule 2, Condition A10 (a)).
A13	If approved by the Planning Secretary, updated strategies, plans or programs supersede the previous versions of them and must be implemented in accordance with the condition that requires the strategy, plan or program.	NT	See comments in Schedule 2, Condition A10 (c).
PROTECTION OF PUBLIC INFRASTRUCTURE			
A14	Unless the Applicant and the applicable authority agree otherwise, the Applicant must: (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by carrying out the development; and	NT	JM and RH (pers comms) confirmed no issues for the project have been identified in relation to damage to public infrastructure. Sighted Infrastructure Deed dated 28 July 2014 between Roads and Maritime Services (RMS) and Macquarie Generation. Section 3.5 of the Deed notes that in the event the company fails to maintain the assets and the RMS is of the view that the assets are unsafe or constitute a public hazard or present a risk to a public road, RMS may issue the company with a notice setting out the work required to be carried out to rectify the asset and the timeframes for doing so.
	(b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.	NT	See comments in Schedule 2, Condition A10 (c).
DEMOLITION			
A15	All demolition must be carried out in accordance with Australian Standard AS 2601-2001 The Demolition of Structures (Standards Australia, 2001), or its latest version.	NT	RH (pers comms) confirmed there has been no demolition works during the audit

Cond	Project Approval SSD 9697	Status	Evidence
			period.
STRUCTURAL ADEQUACY			
A16	All new buildings and structures, and any alterations or additions to existing buildings and structures, that are part of the development must be constructed in accordance with: (a) the relevant requirements of the BCA; and	NT	Viewed correspondence from AGL to DPE dated 3 August 2022. The letter refers to a meeting between the two parties on 20 July 2022 and confirms that the need to obtain construction and occupation certificates under Condition A16 is not relevant to the Ravensworth Ash Line component of the project.
	(b) any additional requirements of SA NSW where the building or structure is located on land within a declared Mine Subsidence District. ***Notes:*** • *Under Part 6 of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works.* • *Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.* • *Under section 21 of the Coal Mine Subsidence Compensation Act 2017, the Applicant is required to obtain the Chief Executive of SA NSW's approval before carrying out certain development in a Mine Subsidence District.*	C	Sighted Subsidence Advisory NSW letter dated 21 June 2022, which notes that Subsidence Advisory NSW has received and accepts the GHD mine subsidence desktop study report (Ref: AGLM-CPG-049-RPT-011, dated 21 March 2022) and its recommendations.
OPERATION OF PLANT AND EQUIPMENT			
A17	All plant and equipment used on site, or to monitor the performance of the development must be: (a) maintained in a proper and efficient condition; and	C	RH (pers comms) confirmed that maintenance of project plant and equipment is completed by contractors. Sighted Service history sheets for project equipment, including: • 20t excavator maintenance dated 9 November 2022 (job code 3697723), 17 October 2022 (job code 3779284) and 23 August 2022 (job code 3743399); • Water cart dated 28 November 2022 (job code 3808972) and 5 October 2022 (job code 3771555);

Cond	Project Approval SSD 9697	Status	Evidence
			• Fire fighting trailer dated 17 November 2022 (job code 3786257) and 17 August 2022 (job code 3739891) for major trailer service.
	(b) operated in a proper and efficient manner.	C	RH (pers comms) confirmed that all contractors complete inductions that covers safe operation of plant and equipment. Sighted Monadelphous Engineering Job Hazard Analysis (JHA) documents signed off by Monadelphous personnel dated 4 December 2022 for: • Clearing and grading of Pipeline Route in all areas signed off by Monadelphous personnel, which covers correct use of earthmoving equipment. • Stringing of pipe, which describes the correct use of 20t excavator with vacuum lift attachment. • Fitting and welding of the Fly Ash Pipeline, which describes the correct use of vehicles and equipment including Oxy/Acetylene equipment. **It is recommended that the risk rating and acknowledgement of understanding sections are completed on all JHA documents.**
SCHEDULE 2, PART B: SPECIFIC ENVIRONMENTAL CONDITIONS			
SURFACE WATER AND GROUNDWATER			
B1	**Water Licences** The Applicant must obtain all necessary water licences for the development, including during construction, under the Water Act 1912 and/or the Water Management Act 2000 prior to the take of water occurring.	NT	JM (pers comms) confirmed that no water licences are required for the current stage of the project.

Cond	Project Approval SSD 9697	Status	Evidence
B2	**Water Quality** The Applicant must ensure that all surface discharges from the site comply with all relevant provisions of the POEO Act, including any discharge limits (both volume and quality) set for the development in any EPL.	C	JM (pers comms) confirmed that no discharges have occurred on site and sediment controls have been implemented for development work. The site inspection confirmed that sediment fences are in place, see **Plate 9**.
B3	All process operational wastewater generated by the activity must: (a) be captured and stored at the premises and must only be disposed of by tanker transport to a licensed wastewater facility; or	NT	JM (pers comms) confirmed no process wastewater is being generated by the current stage of the project.
	(b) discharged in accordance with condition B2; or	NT	See Schedule 2, Condition B3 above.
	(c) managed via an existing site wastewater system.	NT	See Schedule 2, Condition B3 above.
B4	Prior to the commencement of any construction or other surface disturbance the Applicant must install and maintain suitable sediment and erosion controls onsite, in accordance with the relevant requirements of *Managing Urban Stormwater: Soils and construction - Volume 1* (the Blue Book) (Landcom, 2004).	C	The site inspection confirmed that sediment and erosion control measures have been implemented and are being maintained for project construction work, see **Plate 9**.
B5	**Acid Sulphate Soils** The Applicant must ensure that any construction activities in identified areas of acid sulphate soil risk are undertaken in accordance with the Acid Sulphate Soil Manual (Acid Sulphate Soil Management Advisory Committee, 1998).	C	Section 11.2 of the Bayswater WAOAOW EIS (Jacobs, 2020) notes that all land within the Project area is mapped as a 'low probability of occurrence' for acid sulphate soils, with a 'very low' level of confidence. Acid sulphate soil is not anticipated based on elevations within the Project area.

<table>
<tr><th>Cond</th><th>Project Approval SSD 9697</th><th>Status</th><th>Evidence</th></tr>
<tr>
<td>B6</td>
<td>
<u>Water Management Performance Measures</u>
The Applicant must ensure that the development does not cause any exceedance of the performance measures in Table 1, to the satisfaction of the Planning Secretary.
Table 1: Water Management Performance Measures
<table>
<tr><th>Feature</th><th>Performance Measure</th></tr>
<tr><td>Water Management - General</td><td>• Minimise the use of clean and potable water on the site
• Maximise water recycling, reuse and sharing opportunities
• Minimise the use of make-up water from external sources
• Design, install, operate and maintain water management systems in a proper and efficient manner
• Minimise risks to the receiving environment and downstream water users</td></tr>
<tr><td>Erosion and sediment control works</td><td>• Establishment of erosion and sediment controls in accordance with Managing Urban Stormwater: Soils and construction - Volume 1 (the Blue Book) (Landcom, 2004)
• Design, install and maintain any new infrastructure within 40 metres of watercourses in accordance with the guidance series for Controlled Activities on Waterfront Land (NRAR 2018)</td></tr>
<tr><td>Ravensworth ash pipeline</td><td>• Design and install the new section of pipeline to minimise potential for groundwater ingress
• Design, install and operate a pipeline leak detection monitoring and response system</td></tr>
<tr><td>Coal handling plant area infrastructure and sediment basin</td><td>• Design, install and maintain clean water diversions to reduce stormwater inflows to the coal handling plant area sediment basin
• Design, implement and maintain upgrades to the coal handling plant launder system to minimise water consumption
• Design, implement and maintain upgrades to minimise overflow to Tinkers Creek</td></tr>
<tr><td>Borrow Pits</td><td>• Design, install and maintain clean water diversions to reduce stormwater inflows to the borrow pits
• Must not intersect the groundwater table</td></tr>
<tr><td>Salt Cake Landfill</td><td>• Design, construct, operate and decommission the landfill in accordance with the requirements of the EPA's Environmental Guidelines: Solid Waste Landfills 2016 or its latest version (see also condition B24)</td></tr>
<tr><td>Flood protection works</td><td>• Design the salt cake landfill to ensure no adverse impacts on flood behaviour up to and including the 1% Annual Exceedance Probability (AEP) event
• Minimise bank and scour erosion from clean water diversions</td></tr>
<tr><td>Chemical and hydrocarbon storage</td><td>• Chemical and hydrocarbon products to be stored in bunded areas in accordance with the relevant Australian Standards</td></tr>
<tr><td>Aquatic and riparian ecosystems</td><td>• Comply with all relevant provisions of the POEO Act, including any discharge limits (both volume and quality) set for the development in any EPL</td></tr>
</table>
</td>
<td>C</td>
<td>
Water management performance measures relevant to the current stage of the project were reviewed, including:
• General water management:
– JM (pers comms) confirmed that capture and reuse methods are used and that no major new water management dams or systems have been installed. The site inspection confirmed sediment controls have been installed and are being maintained, Plate 9.
• Erosion and sediment control works:
– JM (pers comms) stated that maintenance of sediment fences is completed regularly and covered in toolbox talks.
– RH (pers comm) confirmed that leak detection monitoring is not required for the construction stage of the project.
– Sighted copy of 'GHD Erosion and Sediment Control Report Ravensworth – Bayswater Ash Line Replacement Project Monadelphous Engineering Pty Ltd' dated 24 August 2022. The document describes site-specific erosion and sediment control measures for project construction.
– Sighted examples of 'Daily Checks to be Completed' forms dated 10 December and 16 December 2022, which include sections for comments and corrective actions
</td>
</tr>
</table>

Cond	Project Approval SSD 9697	Status	Evidence
			on sediment controls. Both examples note ESC are in good condition and that only minor corrective actions are required, with an additional sediment fence to be completed for a new topsoil stockpile at the expansion joint area. • Ravensworth ash pipeline - RH (pers comms) confirmed the measures that will be implemented for the transfer pipeline to detect leaks and minimise potential groundwater ingress. Sections 3 - 5 of the CEMP describe measures to manage and respond to water management issues associated with the pipeline infrastructure (see Schedule 2, Condition C1). • Site visit confirmed that chemical and hydrocarbon products are stored in bunded areas, see **Plate 1**. • Aquatic and riparian ecosystems – Section 8 of the WMP notes that a monitoring program will be identified to identify surface water quality impacts (see Schedule 2, Condition B7).
B7	**Water Management Plan** Prior to the commencement of construction, or as otherwise agreed by the Planning Secretary the Applicant must prepare a Water Management Plan (WMP) for the development to the satisfaction of the Planning Secretary. The WMP must: (a) be prepared by a suitably qualified and experienced person(s) whose appointment has been endorsed by the Planning Secretary;	C	Sighted WMP dated 11 August 2022 revised version to address DPE comments. Sighted DPE letter dated 5 August 2022 which notes the endorsement of the members of the project team from AECOM Australia Pty Ltd as suitably qualified and experienced to prepare the WMP for Stage 1 of the development.

Cond	Project Approval SSD 9697	Status	Evidence
	(b) be prepared in consultation with the EPA and NRAR;	C	Sighted DPE approval letter for the WMP dated 17 August 2022. Letter notes the WMP has been prepared in consultation with the NSW Environment Protection Authority and the NSW Natural Resources Access Regulator.
	(c) detail the management of wastewater streams on-site;	C	Section 6 of the approved WMP describes water management measures.
	(d) detail the water licence requirements and water licences held for the development under the Water Management Act 2000;	NT	Sections 1.3, 1.5 of the approved WMP note that additional water licences are not required for the current stage of the project.
	(e) a comprehensive water balance;	NT	Section 1.5 of the approved WMP notes that this a site water balance is not relevant to current stage of the project.
	(f) contain a Groundwater Management Plan, including: (i) detailed baseline data of groundwater levels, yield and quality for groundwater resources potentially impacted by the development, including updated monitoring data from the existing groundwater wells (ii) a comprehensive program to monitor groundwater resources potentially impacted by the development; (iii) a detailed description of the groundwater management system; (i) groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts including potential impacts from the salt cake landfill and any groundwater interception during construction of the Ravensworth ash pipeline; (iv) a program to monitor and evaluate compliance with the relevant performance measures listed in Table 1 and the performance criteria in this plan; (v) reporting procedures for the results of the monitoring program; (vi) a trigger action response plan to respond to any exceedances of the groundwater performance criteria, and repair, mitigate and/or offset any adverse groundwater impacts of the development; and	NT	Section 1.5 of the approved WMP notes that groundwater monitoring and management requirements are not relevant to the current stage of the project.
	(g) contain a Surface Water Management Plan, including: (i) detailed baseline data of surface water resources potentially impacted by the development;	C	Section 7.0 of the approved WMP provides a surface water monitoring program.

Cond	Project Approval SSD 9697	Status	Evidence
	(ii) a comprehensive program to monitor surface water flows and quality, surface water storage and use and sediment basin operation; (iii) a surface water monitoring program, including a program for routine inspection and monitoring of the Ravensworth ash line; (iv) measures to divert clean surface waterways from operational areas; (v) surface water impact assessment criteria, including trigger levels for investigating any potential adverse surface water impacts; (vi) a protocol for the investigation and mitigation of identified exceedances of the surface water impact assessment criteria; and (vii) a trigger action response plan to respond to any exceedances of the surface water performance criteria, and repair, mitigate and/or offset any adverse groundwater impacts of the development.		(i) Relevant baseline data for Stage 1 construction works are detailed in Section 5.5.1. (ii) A comprehensive program to monitor surface water flows and quality, surface water storage and use and sediment basin operation not applicable and is relevant to other components of the project. This is therefore not detailed in the approved WMP for Stage 1. (iii) Section 7.1 notes that Environmental inspections during construction of the Ravensworth Ash Line will be undertaken by the Construction Contractor in accordance with the CEMP developed for the project. It is noted that weekly environmental inspections of the site, inspection of erosion and sediment control devices prior to and following significant rainfall, and monthly environmental audits of the site will be conducted. **It is recommended that the inspection of sediment control structures prior to and following significant rain events of more than 20 mm and monthly environmental audits of the project ESC are completed and documented.** Section 7.2 of the WMP notes for the construction of the Ravensworth Ash Line, water

Cond	Project Approval SSD 9697	Status	Evidence
			quality monitoring of Pikes Creek, Baywater Creek, and Chilcotts Creek will be undertaken by the Construction Contractor at suitable and safely accessible locations upstream and downstream from the construction works. Viewed AECOM Water Monitoring Field Sheet and associated ALS lab certificates dated 20 January 2023 for upstream and downstream locations on Chilcotts Creek, Pikes Creek and Bayswater Creek. Sighted AGL 'Water Monitoring Report December 2022 SSD 9697 Ravensworth Ash Line Upgrade' that notes 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 were conducted. Levels outside of trigger limits at Chilcotts Creek were on upstream samples only suggesting that the works associated with the construction of the Ravensworth Ash Line did not contribute to the upstream levels. AGL note that no flow was observed at the time of sampling, which suggests there was standing water which would have adversely impacted on

Cond	Project Approval SSD 9697	Status	Evidence
			monitoring results. The report also notes that 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. (iv) Section 6 of the WMP describes water management measures for the project construction phase. (v) Section 8.2 of the WMP describes surface water impact assessment criteria. (vi) Section 9.0 of the WMP provides a protocol for the investigation and mitigation of identified exceedances of the surface water impact assessment criteria. (vii) Section 9.0 of the WMP provides a Surface Water Trigger Action Response Plan for the construction of the Ravensworth Ash Line.
B8	The Applicant must implement the Water Management Plan as approved by the Planning Secretary.	C	See Schedule 2, Condition B7 above. Water management for the project generally implemented in accordance with the approved WMP.

Cond	Project Approval SSD 9697	Status	Evidence
B9	**Water Monitoring Station Access** Access to the water monitoring station 210110 at Bayswater Creek, Liddell, must be maintained along Pikes Gully Road, or alternative access arranged in consultation with WaterNSW.	C	The site visit confirmed that Pikes Gully Road is maintained in a good condition for access to water monitoring station 210110.
BIODIVERSITY			
B10	**Biodiversity Credit Requirements** Unless otherwise agreed by the Planning Secretary, the Applicant must retire the biodiversity credits for Offset Stages 1, 2, 3, 4 and 5, as specified in Table 2 below, prior to commencing vegetation clearing in those stages. The retirement of credits must be carried out in consultation with BCS and in accordance with the Biodiversity Offsets Scheme of the BC Act.	C	JM (pers comms) confirmed that only Stage 1 has commenced during the audit period. Sighted BCT statement confirming payment into the Biodiversity Conservation Fund for an offset obligation, date received 16 May 2022, BCT reference BCF356.
B11	The Applicant may review and update the ecosystem and species credit requirements in Table 2 to reflect the final construction footprint and resulting extent and type of plant community types to be cleared. Amendments to the ecosystem and species credit requirements must be undertaken in consultation with BCS and DAWE and approved by the Planning Secretary prior to the commencement of construction of the relevant offset stage.	C	Sighted application for payment into the Biodiversity Conservation Fund for an offset obligation in NSW dated 21 March 2022 and signed by Bayswater/Liddell GM. Sighted Biodiversity Conservation Trust Statement confirming payment into the Biodiversity Conservation Fund for an offset obligation. The document notes that payment was made by AGL Macquarie Pty Ltd and received on 16 May 2022.

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Table 2: Biodiversity credit requirements

Credit Type	Area (ha)	Offset Liability					
		Offset Stage 1	Offset Stage 2	Offset Stage 3	Offset Stage 4	Offset Stage 5	Total Credits Required
Ecosystem Credits							
PCT 1691: Narrow-leaved Ironbark – Grey Box grassy woodland of the central and upper Hunter	200.64	55	52	21	3,102	550	3,780
PCT 1692: Bull Oak grassy woodland of the central Hunter Valley	61.66	2	-	-	1,266	8	1,276
PCT 1731: Swamp Oak - Weeping Grass grassy riparian forest of the Hunter Valley.	2.41	3	-	-	12	15	30
Paddock Trees (PCT 1691)	-	-	-	-	27	4	31
Total							**5,117**
Species Credits							
Squirrel Glider	55.08	38	51	21	1,006	229	1,346
Southern Myotis	8.11	9	8	-	96	120	233
Striped Legless Lizard	116.74	31	38	15	1838	180	2,102
Total							**3,681**

<table>
<tr><th>Cond</th><th>Project Approval SSD 9697</th><th>Status</th><th>Evidence</th></tr>
<tr><td></td><td>Notes:
To identify the surface disturbance areas associated with Offset Stages 1 to 5 in Table 2, refer to Table 3 and the Figure in Appendix 3.
The credits in Table 2 were calculated in accordance with Biodiversity Assessment Methodology (BAM) (DPIE, 2020).
The available credit retirement options for the development include purchase and retirement of open market available biodiversity credits, payment into the Biodiversity Conservation Fund or establishment of a Biodiversity Stewardship Site.
Credits retired for impacts on EPBC Act listed species and associated habitat must be like-for-like.
The credits associated with Offset Stage 5 in Table 2 correspond to works for the ash dam augmentation which are subject to further approval from the Minister as outlined in condition A5.</td><td>NT</td><td>Notes only.</td></tr>
<tr><td></td><td>Table 3: Timetable for retirement of biodiversity credits<table><tr><th>Disturbance Phase</th><th>Retirement Required Prior to Commencement of:</th></tr><tr><td>Stage 1</td><td>Ravensworth Ash Pipeline</td></tr><tr><td>Stage 2</td><td>HP Pipeline and LSP Sludge Line works</td></tr><tr><td>Stage 3</td><td>Coal handling plant area upgrades</td></tr><tr><td>Stage 4</td><td>Borrow pits and salt cake landfill</td></tr><tr><td>Stage 5</td><td>Ash dam augmentation and seepage collection upgrades which would be subject to further approval from the Minister.</td></tr></table></td><td>C</td><td>JM (pers comms) confirmed that only Stage 1 has commenced during the audit period.</td></tr>
<tr><td>B12</td><td><u>Biodiversity Management Plan</u>
Prior to the commencement of construction of the development, the Applicant must prepare a Biodiversity Management Plan (BMP) to the satisfaction of the Planning Secretary. The BMP must:
(a) be prepared by a suitably qualified and experienced biodiversity expert/s;</td><td>C</td><td>Sighted BMP dated 5 August 2022, Version 4, prepared by Kleinfelder Australia Pty Ltd. Appendix B of the 2022 BMP which details Kleinfelder BMP team and experience.</td></tr>
<tr><td></td><td>(b) be prepared in consultation with the BCS;</td><td>C</td><td>Sighted DPE approval letter for the BMP for Stage 1 (Ravensworth pipeline) dated 17 August 2022. The letter notes that the Biodiversity Management Plan has been prepared in consultation with the Departments Biodiversity, Conservation and Science Directorate.</td></tr>
<tr><td></td><td>(c) describe how biodiversity offsets required in condition B11 will be retired;</td><td>C</td><td>Section 1.4.2 of the 2022 BMP notes The Biodiversity Offsets for the Ravensworth</td></tr>
</table>

Cond	Project Approval SSD 9697	Status	Evidence
			Ash Line Replacement Development Site have been retired under Biodiversity Conservation Trust Reference BCF356 for State Significant Development 9697 (SSD).
	(d) describe measures to be implemented within the approved disturbance areas to: (i) minimise the amount of vegetation clearing, in particular, by designing surface infrastructure to minimise clearing of EECs and CEECs; (ii) minimise impacts on fauna, including undertaking pre-clearance surveys; (iii) minimise impacts on tree hollows, where reasonable and feasible; (iv) manage potential indirect and prescribed impacts on flora and fauna; and (v) maximise the salvage of resources, including tree hollows, vegetation and soil resources, for beneficial reuse, including fauna habitat enhancement; and	C	(i) The 2022 BMP notes The construction plan was developed by AGL, with Biodiversity advice from Kleinfelder, to minimise impacts to Biodiversity Values and minimise Biodiversity Offsets. Sections 1.3, 3.1.2, 3.2.2 and 3.3.2 describe measures that satisfy this condition. (ii) Section 3.2.2 of the 2022 BMP describes pre-construction impact mitigation. Section 3.3.2 describes vegetation clearing mitigation noting that vegetation clearing will not occur inside of the breeding and egg maturation periods for the striped legless lizard (November to February) and spring period for hollow-dependent fauna). (iii) Section 3.2.2 of the 2022 BMP describes measures to minimise impacts on tree hollows. (iv) Section 3.2.2 and Section 3.3.2 of the 2022 BMP describes measures to manage potential indirect and prescribed impacts on flora and fauna. (v) Section 3.2.2 and Section 3.3.2 of the 2022 BMP describes measures to maximise salvage and reuse of

Cond	Project Approval SSD 9697	Status	Evidence
			resources. Sighted Kleinfelder letter dated 26 September 2022 that documents a pre-construction site inspection was undertaken for the Ravensworth Ash Line project in accordance with the project-specific BMP. The letter notes that all trees to be removed during the construction phase had been identified and demarcated with pink flagging tape. All protected vegetation was confirmed on project drawings and these areas were delineated by barrier tape (or similar) during the site inspection to minimise the risk of impacts from construction activities. All vegetation to be cleared was inspected on the day for any evidence of animal breeding places such as hollow-bearing trees or nests/dreys, as well as signs of residential fauna including roost sites. One habitat feature, a hollow bearing tree was identified within the construction footprint however it was concluded that this feature could be avoided through micro-siting of the access track, thus avoiding any impacts to this feature. No other habitat features were recorded. Vegetation clearing was scheduled to begin in the days following the site inspection

Cond	Project Approval SSD 9697	Status	Evidence
			allowing for sufficient time to complete works prior to the breeding season of the Striped Legless Lizards. It was noted no animal breeding places or residential or roost sites will be impacted by the clearing activities therefore an ecologist/ fauna spotter catcher is not considered necessary to be present during the clearing works. The letter recommends that relevant persons of the project and clearing teams be aware that avian nests may be constructed during the clearing timeframe (spring); any vegetation requiring removal with a nest should be avoided and an ecologist contacted to provide relevant direction. The letter also noted that any fauna interactions that occur from transient species coming into the work zone, should be avoided and these animals allowed to move away by their own volition and the integrity of the barrier tape delineating the protected vegetation should be periodically checked to ensure it remains in place for the duration of the works.
	(e) describe the measures to be implemented on the site to: (i) minimise impacts to threatened ecological communities listed under the BC Act and EPBC Act, and contribute to conservation strategies for these communities;	**NC**	(i) The 2022 BMP notes that the construction plan was developed by AGL, with Biodiversity advice

Cond	Project Approval SSD 9697	Status	Evidence
	(ii) minimise impacts on fauna habitat resources such as habitat trees, fallen timber and hollow-bearing trees; (iii) protect vegetation and fauna habitat outside of the approved disturbance areas; (iv) manage the collection and propagation of seed from the local area; and (v) control weeds and feral pests; and		from Kleinfelder, to minimise impacts to Biodiversity Values and minimise Biodiversity Offsets. Section 3.4.1 describes measures to minimise impacts to threatened species. (ii) Sections 3.2.2 and 3.3.2 of the 2022 BMP describe measures to minimise impacts on fauna habitat resources. (iii) Section 3.3.1 of the 2022 BMP describes construction impact mitigation. It is noted that vegetation may only be removed from the approved development footprint and contractors will be informed of 'No-Go' zones (native vegetation to be retained) to prevent any clearing beyond the approved extent works. Compaction and placement of fill within 5 m of trees and native vegetation will be avoided, at the discretion of the project manager. The 2022 BMP also notes that construction works are only to occur during the day in order to minimise impacts on nocturnal fauna from noise, vibration, waste and air pollution. JM (pers comms) confirmed that construction works are only undertaken during the day. The site inspection confirmed that 'No-Go' zones are in place, see **Plate 10**.

Cond	Project Approval SSD 9697	Status	Evidence
			JM (pers comms) roped off areas are used to identify the boundary area of the project, this was confirmed during the site inspection, see **Plate 11** and **Plate 12**. AGL Bayswater Power Station Fly Ash Plant Upgrade Design drawings dated 14/1/22 shows disturbance boundary. (iv) Section 3.3.4 of the BMP describes the procedure for weed management during construction. The plan notes that the 'Bradley method' will be adopted to remove weeds with minimal disturbance and allow native species to re-establish naturally from the existing seed bank and rootstock. The site inspection confirmed that currently there is limited vegetation disturbance required for the pipeline construction stage of the project, and limited presence of weeds. **The BMP does not include comments on the management of seed collection and propagation. It is recommended that the BMP is reviewed and updated to include this information for future stages of the project.** (v) Section 3.3.4 of the 2022 BMP describes weed management during construction and Section

Cond	Project Approval SSD 9697	Status	Evidence
			3.4 describes weed management post construction. Section 3.4.1 of the 2022 BMP notes that a feral animal baiting program is to be carried out following the completion of construction. JM (pers comms) confirmed that feral pest control and weed management contractor is engaged by AGL on a site-wide basis. Section 3.3.4 of the BMP notes that all weeds removed from the site must be transported in a sealed container or bag and disposed at a waste management facility licensed to accept green waste. JM (pers comms) noted that no weeds were removed from site during the audit period. Section 3.3.4 of the BMP also notes that vehicles, machinery and equipment must be free from weed material (including seeds) before entering the construction corridor. Sighted examples of Monadelphous weed and pest free inspection reports dated 16 November and 5 December 2022 for Plant ID 59/AETB12681 and Plant ID 394 7QH. These reports declares the vehicle has been

Cond	Project Approval SSD 9697	Status	Evidence
			cleaned and inspected and is free from weeds, seeds, pathogens and pests.
	(f) include a program to monitor, evaluate and report on the effectiveness of the measures.	C	Section 3.5.2 of the 2022 BMP includes a program to monitor, evaluate and report on the effectiveness of the measures.
B13	The Applicant must implement the Biodiversity Management Plan as approved by the Planning Secretary.	**NC**	See non-compliances on BMP implementation noted against condition B12 (e) above.
AIR QUALITY			
B14	**General Operating Conditions** The Applicant must carry on any activity, or operate any plant, in or at the site by such reasonably practicable means as may be necessary to prevent or minimise air pollution.	C	Section 4.5 of the CEMP and Section 8.7 of the Environmental Management Strategy (EMS) describes air quality management. See Schedule 2, Conditions C1 (CEMP) and D1 (EMS). Site inspection confirmed that a watercart is used to minimise dust during construction work (see **Plate 8**). JM (pers comms) confirmed that there have been no complaints in relation to dust or odour during the audit period. No offensive odours were detected during the audit site visit.
B15	The premises must be maintained and operated in a manner that minimises or prevents dust emissions from the site.	C	Site inspection found that the pipeline access tracks were well maintained with minimal potential for dust generation at the time of the audit. A watercart was sighted during the inspection, see **Plate 8**. Signage on site limits traffic to 40 km/hr to minimise dust emissions (see **Plate 7**).
B16	All operations and activities occurring at the premises must be carried out in a manner that will minimise dust at the boundary of the site.	C	JM (pers comms) confirmed the site inductions completed by all contractors

Cond	Project Approval SSD 9697	Status	Evidence
			include dust awareness. Sighted AGL Rapid Induction dated 28 April 2022. The Environment Module of the induction package describes dust mitigation measures.
B17	The Applicant shall not permit any offensive odour to be emitted beyond the boundary of the site.	C	JM (pers comms) stated that no incidents in relation to odour have been reported during the audit period. Sighted Ravensworth Pipeline HSE incident register Ref: Ref 23- HSE Events – Ravensworth Pipeline, nil incidents in relation to odour have been recorded. Nil odour emissions were detected during the site inspection.

Cond	Project Approval SSD 9697	Status	Evidence
NOISE			
B18	The Applicant must minimise the noise generated by the construction, operation, and decommissioning of the development.	C	Section 4.9 of the approved CEMP notes that the approved hours for construction are Mon-Fri 7 am to 6 pm and Sat 7 am to 1 pm. RH (pers comms) stated that worksite inspections are completed to record that construction activities are conducted during approved hours of construction. **It is recommended that contractor records are retained to confirm that construction activities are completed within approved hours of operation.** Plant and equipment are maintained and operated in accordance with manufacturers specifications. Viewed maintenance records sighted for: • 20t excavator dated 9 November 2022, 26 October 2022, 28 September 2022; and • Fire-fighting trailer dated 15 December 2022, 17 November 2022 and 17 August 2022.
WASTE MANAGEMENT			
B19	**Receipt, Storage and Handling of Water** The Applicant must: (a) take all reasonable steps to minimise the waste generated by the development;	C	RH (pers comms) that the construction contractors manage their own waste that is generated by the project. Viewed Monadelphous waste removal invoices for general waste and scrap metal, dated 21 March 2022 and waste water pump out and removal, dated 9 August 2022. Segregated waste skip bins were sighted

Cond	Project Approval SSD 9697	Status	Evidence
			during the site inspection (see **Plate 6**).
	(b) classify all waste in accordance with the Waste Classification Guidelines (EPA, 2014);	C	Waste materials generated by the project are recorded, classified and monitored against the EPA Waste Classification Guidelines and the requirements in EPL 779. Waste is also required to be managed in accordance with the AGL Waste Management Plan, AGLM-HSE-PLN-009.07.
	(c) dispose of all waste at appropriately licensed waste facilities or as expressly permitted in an applicable EPL;	C	Waste invoice to Monadelphous sighted dated 21/03/22 from supplier Remondis Australia Pty Ltd for scrap metal and general waste removal.
	(d) manage on-site sewage treatment and disposal in accordance with the requirements of MSC; and	C	RH (pers comms) confirmed sewage from temporary construction offices is pumped out by vac truck which is organised by Monadelphous. Invoice sighted for pump out and removal of sewage waste dated 09/08/22.
	(e) manage any asbestos or asbestos-contaminated materials identified during construction and operation of the development in accordance with the requirements under the Protection of the Environment Operations (Waste) Regulation 2014.	NT	RH (pers comms) confirmed no asbestos has been identified or disposed of during the audit period. Viewed a copy of the AGL Asbestos Management Procedure, AGLM-HSE-PRO-007.10.01 which outlines responsibilities, procedures/ protocols and systems for effective management of asbestos and asbestos containing material and the minimisation of health risks associated with the presence of asbestos.
B20	Except as expressly permitted in an applicable EPL or exemption under the Protection of the Environment Operations (Waste) Regulation 2014, the Applicant must not receive waste at the site for	NT	RH (pers comms) no waste has been received on site for storage, treatment,

Cond	Project Approval SSD 9697	Status	Evidence
	storage, treatment, processing, reprocessing or disposal.		processing, reprocessing or disposal.
	Chemicals, fuels and oils used on-site must be kept in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, and/or EPA's Storing and Handling of Liquids: Environment Protection- Participants Manual (Department of Environment and Climate change, 2007).	C	Site inspection confirmed that small volumes of chemicals retained on site are stored in a bunded area (see **Plate 1**).
SALT CAKE LANDFILL			
B22	**Salt Cake Landfill Environmental Management Plan** Six months prior to the commencement of construction of the Salt Cake Landfill, or as otherwise agreed by the Planning Secretary, the Applicant must submit to the Planning Secretary and the EPA a Salt Cake Landfill Environmental Management Plan which details the design, construction, operation, decommissioning and rehabilitation of the salt cake landfill. The report must: (a) be prepared by a suitably qualified and experienced person(s);	NT	Commencement of construction for the Salt Cake Landfill has not occurred during the audit period.
	(b) be prepared in consultation with the EPA;	NT	See comments in Schedule 2, Condition B22 (a) above.
	(c) demonstrate how the Salt Cake Landfill would be designed, constructed, operated and decommissioned in accordance with the requirements of the EPA's Environmental Guidelines: Solid Waste Landfills 2016 or its latest version, including a detailed quality assurance/quality control and monitoring program that would be applied for each stage of the landfill;	NT	See comments in Schedule 2, Condition B22 (a) above.
	(d) detail measures to reduce the risk of liner failure;	NT	See comments in Schedule 2, Condition B22 (a) above.
	(e) include a detailed Groundwater Monitoring Plan that includes (i) the establishment of a groundwater monitoring network (consisting of appropriately located wells upgradient, to the periphery and downgradient of the Salt Cake Landfill) for the purpose of routinely monitoring groundwater and detecting potential leakage/seepage; and (ii) triggers for further investigation and action in response to potential leakage/seepage.	NT	See comments in Schedule 2, Condition B22 (a) above.
B23	The Applicant must implement the Salt Cake Landfill Environmental Management Plan as approved by the Planning Secretary.	NT	See comments in Schedule 2, Condition B22 (a) above.
VISUAL AND LIGHTING			
B24	The Applicant must: (a) minimise the off-site visual impacts of the development, including the potential for any glare or	C	RH (pers comms) confirmed no permanent lighting is used for the project, with all work completed during approved day time

Cond	Project Approval SSD 9697	Status	Evidence
	reflection;		construction hours. RH (pers comms) noted that no complaints in relation to lighting have been received. No permanent lighting structures were sighted during the audit site inspection. Lighting on mobile lighting plant sighted during the site inspection was positioned downwards to minimise visual impacts.
	(b) ensure the visual appearance of infrastructure (including paint colours) blends in as far as possible with the surrounding landscape; and	C	Site inspection confirmed that the above ground pipe blends in as far as possible with the surrounding landscape (see **Plate 11**).
	(c) not mount any commercial advertising signs or logos on site, except where this is required for identification or safety purposes.	C	Site inspection confirmed that no commercial advertising signs or logos have been mounted on site.
B25	The Applicant must: (a) minimise the off-site lighting impacts of the development; and	C	See comments in Schedule 2, Condition B24 (a) above.
	(b) ensure that any external lighting associated with the development: (i) is installed as low intensity lighting (except where required for safety or emergency purposes); (ii) does not shine above the horizontal; and (iii) complies with Australian Standard AS4282 (INT) 1997 – Control of Obtrusive Effects of Outdoor Lighting, or its latest version.	C	See comments in Schedule 2, Condition B24 (a) above.
ABORIGINAL HERITAGE			
B26	**Unexpected Finds Protocol** If any previously unknown Aboriginal object is identified on site, or suspected to be on the site: (a) all work in the immediate vicinity of the potential Aboriginal object must cease immediately;	C	JM (pers comms) confirmed there have been no unexpected finds of Aboriginal objects during clearing within the audit period. Section 4.2 of the approved ACHMP notes that if previously unidentified Aboriginal objects/places are identified within the ACHMP area all works within the

Cond	Project Approval SSD 9697	Status	Evidence
			immediate vicinity of the potential Aboriginal object/place must cease immediately.
	(b) a 10 m wide buffer area around the suspected item or object must be cordoned off;	C	JM (pers comms) noted that buffers around identified Aboriginal heritage have been closed off and 'No-Go' signage is put in place. The site inspection confirmed that signage and flagging tape is used to delineate and prevent access to Aboriginal cultural heritage areas in the field (see **Plate 3** and **Plate 4**).
	(c) Heritage NSW and the Registered Aboriginal Parties must be contacted as soon as practicable; and	C	See comments in Schedule 2, Condition B26(a). Section 4.2 of the approved ACHMP notes that Heritage NSW and RAPs must be contacted as soon as possible if an unexpected object/place is determined as Aboriginal.
	(d) appropriate site management measures must be developed in consultation with an archaeologist and Registered Aboriginal Parties.	C	Section 4 of the approved ACHMP describes management of Aboriginal cultural heritage values. DPE letter of approval for the ACHMP dated 8 August 2022 notes that the document has been prepared in consultation with AGL RAPs.
B27	Work in the immediate vicinity of the Aboriginal object may only recommence if: (a) the potential Aboriginal object is confirmed by Heritage NSW, in consultation with the Registered Aboriginal Parties, not to be an Aboriginal object; or	NT	See Schedule 2, Condition B26 above.
	(b) the Planning Secretary is satisfied with the measures to be implemented in respect of the Aboriginal object and makes a written direction in that regard.	NT	See Schedule 2, Condition B26 above.
B28	If any archaeological relics are uncovered during the course of the work, then all works must cease immediately in that area. Unexpected finds must be evaluated and recorded in accordance with the	C	See Schedule 2, Condition B26(a).

Cond	Project Approval SSD 9697	Status	Evidence
	requirements of Heritage NSW.		
B29	**Aboriginal Cultural Heritage Management Plan** The Applicant must prepare an Aboriginal Cultural Heritage Management Plan for the development. The plan must: (a) be prepared by suitably qualified and experienced persons;	C	Sighted ACHMP dated 2 August 2022, prepared by AECOM Australia Pty Ltd. Section 1.6 of the ACHMP notes that Geordie Oakes (Principal Heritage Specialist, AECOM) was the primary author of the document. The ACHMP was approved by DPE on 8 August 2022.
	(b) be prepared in consultation with Registered Aboriginal Parties and Heritage NSW;	C	Section 5.4 of the 2022 ACHMP notes that the draft was distributed to RAPs on the 29 April 2022 for consultation and comment. RAPs were provided with a minimum 28 day period to provide comment on the plan. One written response was received in relation to the draft ACHMP. Sighted RAP response email dated 30 April 2022 from Tocomwall Pty Ltd. DPE approval letter for the ACHMP dated 8 August 2022 notes that the plan was prepared in consultation with Heritage NSW and RAPs.
	(c) unless otherwise agreed by the Planning Secretary, be submitted to the Planning Secretary for approval prior to carrying out construction under this consent;	C	See Schedule 2, Condition A8. DPE approval of the ACHMP on 8 August 2022 occurred prior to commencement of construction of the ash pipeline.
	(d) describe the measures to be implemented on the site to: (i) comply with the heritage-related operating conditions of this consent; (ii) ensure all workers receive suitable Aboriginal cultural heritage inductions prior to carrying out any activities which may cause impacts to Aboriginal objects or Aboriginal places, and that suitable records are kept of these inductions; (iii) protect, monitor and/or manage identified Aboriginal objects and Aboriginal places (including proposed salvage of objects within the approved disturbance area) in accordance with the commitments	C	(i) Section 4 of the approved ACHMP outlines measures to comply with heritage related operating conditions of SSD 9697. (ii) Section 9 of the 2022 approved ACHMP details training and induction procedures at the

Cond	Project Approval SSD 9697	Status	Evidence
	made in the document/s listed in condition A2(c); (iv) protect Aboriginal objects and Aboriginal places located outside the approved disturbance area from impacts of the development; (v) manage the discovery of suspected human remains and any new Aboriginal objects or Aboriginal places, including provisions for burials, over the life of the development; (vi) maintain and manage reasonable access for relevant Aboriginal stakeholders to Aboriginal objects and Aboriginal places (outside of the approved disturbance area); and (vii) facilitate ongoing consultation and involvement of Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site; and		Baywater Power Station. The ACHMP states that generic Aboriginal cultural heritage management training is provided to all employees and contractors. It is also noted that any employees, contractors or supervisors carrying out any activity that may cause impacts to Aboriginal cultural heritage values will undertake a more detailed training package prior to commencing work. Sighted Monadelphous AGL Bayswater Fly Ash Plant Upgrade and Slurry Pipeline Replacement Project Induction (REF: Ref 26 – Project BI40000 – AGL Bayswater FAPU and SPR Project Induction Final Version). The induction notes restricted access to areas of Aboriginal Cultural significance. Sighted AGL Macquarie Cultural Heritage Induction Ravensworth Pipeline Cultural Heritage Induction which describes legislative requirements, cultural heritage, unexpected finds and human skeletal remains procedures. Sighted examples of contractor induction training attendance records, completed in December 2022. (iii) Section 4 of the 2022 ACHMP describes management of Aboriginal cultural heritage

Cond	Project Approval SSD 9697	Status	Evidence
			values. Section 4.6 of the ACHMP describes care and control of salvaged objects. (iv) Section 4.7 of the 2022 ACHMP notes that a number of Aboriginal sites are located outside the ACHMP area but within the Bayswater Power Station site. It is also noted that management of these sites will be included in separate ACHMPs to be developed for components of the project to be developed at a later date. Section 4.7 of the approved ACHMP notes other known sites are a sufficient distance away from the construction footprint so as not to represent an impact risk and the construction footprint will be demarcated or communicated to contractors to ensure no disturbance outside of approved area. The site inspection confirmed that delineation fencing of Aboriginal sites in proximity to the pipeline construction footprint is in place (see **Plate 3** and **Plate 4**). (v) Section 4.2 of the 2022 ACHMP describes the protocols for unanticipated finds. Section 4.2.2 describes the procedure for findings of human skeletal remains.

Cond	Project Approval SSD 9697	Status	Evidence
			(vi) Section 4.6 of the 2022 ACHMP notes that Aboriginal community members may wish to access sites for appropriate cultural purposes. AGL Macquarie will facilitate reasonable access upon request and reasonable access will be subject to Bayswater Power Stations operational requirements. (vii) Section 5.5 of the 2022 ACHMP describes the ongoing RAP consultation. The ACHMP notes that notification will be provided in writing to RAPs if: – there are significant changes to approved operations at the site resulting in potential implications for Aboriginal heritage management; – there is a discovery of an Aboriginal site (e.g., object, burial, grinding groove or scarred tree) in accordance with the process described in Section 4.2 of the ACHMP; – there is an opportunity to participate in Aboriginal archaeological survey or salvage works (should these be required); and – there are discussions regarding the long-term management of Aboriginal heritage items at the site.

Cond	Project Approval SSD 9697	Status	Evidence
			JM and RH (pers comms) confirmed there has been no triggers for the need for unanticipated RAP consult.
	(e) include a strategy for the care, control and storage of Aboriginal objects salvaged on the site, both during the life of the development and in the long term.	C	Section 4.6 of the ACHMP describes the strategy for care and control of salvaged Aboriginal objects. It is noted that a long-term strategy has not yet been established by Liddell Power Station or the RAPs and as such, any salvaged items will remain in the temporary storage location until a decision is made. Any decisions regarding the long-term management of Aboriginal objects will be made in consultation with RAPs and Heritage NSW. A long-term management strategy will be prepared prior to power station closure. JM (pers comms) no artifacts have been salvaged during the project to the time of audit.
B30	The Applicant must implement the Aboriginal Cultural Heritage Management Plan approved by the Planning Secretary.	C	See comments in Schedule 2, Condition B29 above.
DANGEROUS GOODS			
B31	The Applicant must ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant Australian Standards and the Dangerous Goods Code.	NT	JM (pers comms) no dangerous goods are required for this stage of the project.
REHABILITATION AND DECOMMISSIONING			
B32	**Rehabilitation Objectives** The Applicant must rehabilitate the development. The rehabilitation must be generally consistent with the proposed rehabilitation objectives described in the documents listed in condition A2(b), and must comply with the objectives in Table 3.	C	Section 8.10 of the EMS states a rehabilitation plan will be developed covering all project elements, which would include measures to remediate the land where required following decommissioning.

<table>
<tr><th>Cond</th><th>Project Approval SSD 9697</th><th>Status</th><th>Evidence</th></tr>
<tr><td></td><td></td><td></td><td>See Schedule 2, Condition B34 (b) below, requirement for rehabilitation strategy not triggered at time of audit.</td></tr>
<tr><td></td><td>Table 3: Rehabilitation objectives
<table><tr><th>Feature</th><th>Objective</th></tr><tr><td>All areas of the site affected by the development</td><td>• Safe, stable and non-polluting
• Fit for the intended final land use
• Minimise post-decommissioning and closure environmental impacts</td></tr><tr><td>Ash Dam</td><td>• To be decommissioned and made safe, stable and non-polluting
• Complies with requirements of the Dams Safety Act 2015 and Dams Safety Regulation 2019 or as amended</td></tr><tr><td>Salt cake landfill</td><td>• Final landform and capping design in accordance with the requirements of EPA's Environmental Guideline: Solid Waste Landfills 2016, or its latest version (see also Condition B22)</td></tr><tr><td>Surface infrastructure of the development, including pipelines</td><td>• To be decommissioned and removed, unless the Planning Secretary agrees otherwise</td></tr><tr><td>Borrow Pits</td><td>• Free-draining, safe and stable landform
• Establish/restore native vegetation using locally endemic species from locally sourced seeds/plants</td></tr><tr><td>Community</td><td>• Ensure public safety</td></tr></table></td><td>-</td><td></td></tr>
<tr><td>B33</td><td><u>Progressive Rehabilitation</u>
The Applicant must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable steps must be taken to minimise the total area exposed at any time. Interim stabilisation and temporary vegetation strategies must be employed when areas prone to dust generation, soil erosion and weed incursion cannot be permanently rehabilitated.
Note: This condition does not prevent further disturbance at some later stage of the development of areas that have been rehabilitated.</td><td>NT</td><td>See Schedule 2, Condition B32 above.
Area disturbed within the pipeline footprint were generally found to be minimised to the areas required for safe access and construction work.</td></tr>
<tr><td>B34</td><td><u>Rehabilitation Strategy</u>
The Applicant must prepare a Rehabilitation Strategy for the development to the satisfaction of the Planning Secretary. This plan must:
(a) be prepared in consultation with DPIE Water, EPA, MSC and SC;</td><td>NT</td><td>See comment in Schedule 2, Condition B34 (b)</td></tr>
<tr><td></td><td>(b) be submitted to the Planning Secretary for approval within 12 months of the date of commencement of development under this consent;</td><td>NT</td><td>See Schedule 2, Condition A8. Twelve months have not elapsed from the date of commencement.</td></tr>
<tr><td></td><td>(c) build upon the Rehabilitation Objectives in Table 3 and address all aspects of rehabilitation and</td><td>NT</td><td>See comments in Schedule 2, Condition</td></tr>
</table>

Cond	Project Approval SSD 9697	Status	Evidence
	decommissioning including final landform, final land use/s and water management;		B34 (b). **It is recommended that measures for rehabilitation of the pipeline corridor are included in the project Rehabilitation Strategy.**
	(d) describe the proposed rehabilitation of the ash dam with consideration of the ash reuse potential including a: (i) description of techniques to restore the area, including capping design to meet the rehabilitation objectives in Table 3; (ii) timetable for the progressive staging of the rehabilitation program; and (iii) monitoring and auditing program;	NT	See comments in Schedule 2, Condition B34 (b).
	(e) detail the conceptual final landform design for the ash dam;	NT	See comments in Schedule 2, Condition B34 (b).
	(f) describe the measures to remediate land where required following decommissioning in accordance with State Environmental Planning Policy No 55 - Remediation of Land;	NT	See comments in Schedule 2, Condition B34 (b).
	(g) include a stakeholder engagement plan to guide decommissioning and rehabilitation planning processes and outcomes; and	NT	See comments in Schedule 2, Condition B34 (b).
	(a) include a program to report on the outcomes of the rehabilitation required under this consent and review and update this strategy at least every three years.	NT	See comments in Schedule 2, Condition B34 (b).
B35	The Applicant must implement the approved Rehabilitation Strategy as approved by the Planning Secretary.	NT	See comments in Schedule 2, Condition B34 (b).
B36	**Bushfire Management** The Applicant must: (a) ensure that the development: (i) provides for asset protection in accordance with the relevant requirements in the Planning for Bushfire Protection (RFS, 2019) guideline; and (ii) ensure that there is suitable equipment to respond to any fires on the site; and	C	Section 8.13 of the EMS describes hazards and bushfire management. Sighted Bushfire Season Checklist document dated 22 November 2022. 'Fire hydrant and fire equipment maintained' item on the checklist marked as N/A and chemical storage areas item left blank. Sighted tagged portable fire extinguishers on site which indicate equipment is serviced by a contractor on a six monthly

Cond	Project Approval SSD 9697	Status	Evidence
			basis (see **Plate 5**). Sighted fire suppression trailer available on site during the site inspection (**Plate 2**). **It is recommended that:** • **Asset protection access for the ash pipeline is maintained during and post-construction, generally in accordance with RFS (2019); and** • **Regular checks of portable fire equipment and chemical storage areas required for the project are completed and documented.**
	(b) assist the RFS and emergency services to the extent practicable if there is a fire in the vicinity of the site.	C	Section 8.13 of the EMS notes that AGL will assist the RFS and emergency services to the extent practicable if there is a fire in the vicinity of the site.
SCHEDULE 2, PART C: CONSTRUCTION SPECIFIC ENVIRONMENTAL CONDITIONS			
CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN			
C1	The Applicant must prepare a Construction Environmental Management Plan for construction works to the satisfaction of the Planning Secretary. This plan must be prepared in consultation with the EPA, MSC and SC and include: (a) a description of activities to be undertaken during construction of the project (including staging and scheduling);	C	Sighted CEMP dated 2nd August 2022 and DPE approval letter dated 16 August 2022. The DPE approval letter notes the CEMP has been prepared in consultation with the NSW Environment Protection Authority, Muswellbrook Shire Council and Singleton Council. (a) Section 1.3 of the 2022 CEMP describes construction activities.
	(b) statutory and other obligations that the Applicant is required to fulfil during construction, building and demolition work, including approvals, signage, consultations and agreements required from authorities and other stakeholders under key legislation and policies;	**NC**	Section 2 of the 2022 CEMP describes the legislative framework. A number of commitments have been made, including: • Arch sites / PADs in boundary, no go areas delineated. 'no go' signage has

Cond	Project Approval SSD 9697	Status	Evidence
			been installed at the project site, see **Plate 3** and **Plate 4**. • Section 3.3 of the CEMP notes that a register for environmentally sensitive sites will be maintained to demonstrate compliance with the CEMP. Sighted Environmental Sensitive Sites Register for the AGL Fly Ash Project (REF: Ref 29 – Bayswater Fly Ash Project Environmental Register). Section 2 of the BMP provides mapping of sensitive sites. **It is recommended that a reference to the BMP mapping for environmentally sensitive sites is incorporated into the CEMP.** • Monadelphous Bushfire Risk Controls; see comments in Schedule 2, Condition 36; • EPL variation to accommodate for the additional scheduled activities of the project. Sighted EPL 779 Licence Variation, EPA Notice number 1624479, dated 15 December 2022. • Section 2 of the CEMP notes that the Project requires works within road reserve areas associated with the Ravensworth ash pipeline. A Roads Act approval is required. It is the responsibility of AGL to obtain this approval. Sighted letter from Singleton Council addressed to Monadelphous in relation to an application for the use of a Council road dated 24 November 2022. The letter notes an application was received by the council on 11 November 2022 for works within the

Cond	Project Approval SSD 9697	Status	Evidence
			road reserve of New England Highway for the sole purpose of drilling for pipeline construction. The letter also notes that Pikes Gully Road is classified as a local road and Singleton Council is the appropriate Roads Authority. The letter grants consent subject to terms and conditions. • Section 4.8 of the CEMP notes that the Haulage contractor will prepare and implement a Traffic Management Plan for oversize vehicle movements, to include: – Identification of the routes; – Measures to provide an escort for the loads; – Mechanisms to monitor daily movements; – Times of transport to minimise impacts on the road network; and – Communication of strategy and liaising with emergency services and police. RH (pers comms) noted the current stage of the project does not involve any movements of oversized vehicles. A copy of the Traffic Control Plan AGL Slurry Pipeline – Rev 3 was sighted. The document describes a traffic control plan, traffic control devices, management of change, communication plan and figures which show vehicle access and turn around areas. **It is recommended AGL review and update the CEMP to outline the project**

Cond	Project Approval SSD 9697	Status	Evidence
			stages that are expected to require heavy vehicle movements and associated management measures in the Traffic Management Plan will be implemented. • Water monitoring records: – Viewed examples of Daily Checks completed by the construction contractor for potable water levels, toilets, sediment control and spill kits and surface water monitoring in local creeks, generally in accordance with the WMP. **Water use records for construction were not available at the time of audit. It is recommended that water use information is collated and maintained for internal purposes, in accordance with Section 4.3 of the CEMP.** • The Project will generate waste, with the waste to be classified and disposed of in accordance with the relevant legislation. Invoice dated 21 March 2022 was sighted as an example of Remondis scrap metal and general waste removal services. • Visual & lighting generally AS compliant; see comments in Schedule 2, Condition B24. • Heritage: restricted access signage is in place for known heritage sites (see **Plate 3** and **Plate 4**). Heritage obligations are also noted in the project inductions, contractor pre-starts and toolbox talks.

Cond	Project Approval SSD 9697	Status	Evidence
			• Hazardous materials management: sighted Monadelphous Daily Pre-Start and De-Brief Meeting Form dated 23/11/22 noted that toolbox talk on spills has been completed. Sighted Monadelphous Daily Pre-Start and De-Brief Meeting Form dated 25/11/22 general comments include keep to low speed around workgroups, coaters and welders, unloading pipes around dam and return water lines maintenance.
	(c) identification of relevant guidelines, standards, codes of practice etc. to which the Applicant intends to comply;	C	Section 1.4 of the 2022 CEMP provides an identification of relevant guidelines, standards, codes of practice etc. that are relevant to the current stage of the project
	(d) a description of the roles and responsibilities for relevant employees involved in the construction of the project, including relevant training and induction provisions for ensuring that employees, including contractors and sub-contractors are aware of their environmental and compliance obligations under these conditions of consent;	C	Section 3 of the 2022 CEMP provides a description of the roles and responsibilities for relevant employees involved in the project. Section 3.4 of the CEMP describes environmental training and notes all site employees and subcontractors are required to complete the environmental awareness inductions prior to undertaking any work on the project. Sighted AGL Rapid Induction dated 28/04/22 which includes an Environment module.
	(e) an environmental risk analysis to identify the key environmental performance issues associated with the construction phase; and	C	Section 4.1 of the 2022 CEMP provides a Risk Assessment to identify environmental risks during construction. It is noted that a risk assessment workshop was conducted between AGL and the

Cond	Project Approval SSD 9697	Status	Evidence
			project construction contractor Monadelphous to assess the level of risk for all identified environmental hazards and to ensure that a suitable suite of preventative and mitigating controls were in place. Sighted 'Bayswater Pipeline Project – Environmental Risk Register' dated 6 April 2022 for the Bayswater Fly Ash Plant Upgrade – Ravensworth Ash Line. The risk register includes activities associated with the project, hazards, risks, preventative measures and mitigation measures.
	(f) details of how environmental performance would be managed and monitored to meet acceptable outcomes, including what actions will be taken to address identified potential adverse environmental impacts (including any impacts arising from the staging of the construction of the project). In particular, the following environmental performance issues shall be addressed in the plan: (i) soil, water quality, flood and spoil management; (ii) erosion and sediment control; (iii) dust management; (iv) management of non-Aboriginal heritage; (v) soil contamination, hazardous material and waste management; (vi) management of ecological impacts (vii) traffic; and (viii) hazard and risk management.	C	Section 5 of the CEMP outlines environmental monitoring requirements during construction of the Ravensworth Ash Line and the review requirements for the CEMP. (i) Section 4.3 describes surface water and hydrology management and monitoring. (ii) Section 4.3 describes erosion and sediment control. (iii) Section 4.5 describes air quality management and monitoring controls including dust management. (iv) Section 4.11 describes the management of non-Aboriginal heritage. It is noted that a heritage item identified in proximity of the Ravensworth Ash Line is Chain of Ponds Inn, Liddell and that the item will not be impacted during construction. (v) Section 4.6 describes

Cond	Project Approval SSD 9697	Status	Evidence
			management of soil contamination. Section 4.12 describes management of waste including hazardous materials. (vi) Section 4.2 describes management and monitoring measures of ecological impacts. (vii) Section 4.13 describes risk management and monitoring of bushfire.
C2	The Applicant must not commence construction until the Construction Environmental Management Plan is approved by the Planning Secretary.	C	See Schedule 2, Condition A8. DPE approval the CEMP on 16 August 2022 occurred prior to commencement of construction of the ash pipeline.
C3	The Applicant must implement the Construction Environmental Management Plan as approved by the Planning Secretary.	**NC**	See non-compliances noted for implementation of the CEMP in Schedule 2, Condition C1.
SCHEDULE 2, PART D: ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING			
ENVIRONMENTAL MANAGEMENT			
D1	Prior to commencing construction, the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Planning Secretary. This strategy must: (a) provide the strategic framework for environmental management of the development;	C	Sighted approved 'Bayswater WOAOW EMS', dated 11 August 2022, Revision no: Final. Sighted DPE letter of approval for the document dated 17 August 2022. Section 7 of the approved EMS provides Environmental Management Framework.
	(b) identify the statutory approvals that apply to the development;	C	Section 3 of the approved EMS describes the statutory requirements. Section 3.2 provides a table listing approvals, permits and licences for the project.
	(c) describe the role, responsibility, authority and accountability of all key personnel involved in the	C	JM (pers comms) noted that there is an Organisation chart included in the EMS.

Cond	Project Approval SSD 9697	Status	Evidence
	environmental management of the development;		Section 7.3.3 of the EMS provides an AGL organisational chart. Section 7.3 of the approved EMS describes roles and responsibilities for both AGL personnel, contractors and sub-contractors working on all stages of the project.
	(d) describe the procedures that would be implemented to: (i) keep the local community and relevant agencies informed about the operation and environmental performance of the development; (ii) receive, handle, respond to, and record complaints; (iii) resolve any disputes that may arise; (iv) respond to any non-compliance; (v) respond to emergencies; and	C	(i) Section 6.2 of the approved EMS describes Stakeholder and Community consultation. Section 6.2.1 of the approved EMS notes that the Project stages will be discussed with the Community Dialogue Group prior to construction in person; where in person meetings are not possible, meetings will take place over Microsoft Teams. Sighted Community Dialogue Group meeting minutes dated 23 June 2022 and 03 March 2022. (ii) Section 6.3 of the approved EMS describes complaint management. It is noted that community complaints can be made through the AGL Complaints and Enquiries Hotline. The EMS notes that complaints will be recorded in the Community Complaints Register. JM (pers comms) confirmed no issues have been raised by regulatory agencies or the local community during project construction, and non-compliances have not been

Cond	Project Approval SSD 9697	Status	Evidence
			recorded. (iii) Section 6.3 of the approved EMS describes dispute management. (iv) Section 7.7 of the approved EMS describes compliance management. Section 7.7 .2 notes that a register or table of environmental compliance requirements will be prepared to assist with monitoring and recording compliance with requirements. It is noted the register will: 1) Provide an identification number for each approval obligation; 2) Identify the requirements in all SSD-9697 conditions of consent that must be complied with during the planning and conduct of works under the contract; 3) Detail the compliance monitoring methods to be used to assess compliance with each compliance requirement; and 4) Detail the type of data or evidence that is to be collected to assess whether compliance has been achieved. Sighted 'SSD 9697 Ravensworth Compliance Register – Rev A 20220823'. The register includes a document and section reference, requirement summary,

Cond	Project Approval SSD 9697	Status	Evidence
			requirement details, stage of works, timing, frequency, responsibility, record and status for each approval obligation. **It is recommended that AGL review and update the Ravensworth Compliance Register to provide an identification number for each approval obligation.** (v) Section 7.5.2 of the approved EMS describes Emergency Response Procedures.
	(e) include: (i) references to any strategies, plans and programs approved under the conditions of this consent; and (ii) a clear plan depicting monitoring to be carried out under the conditions of this consent.	C	(i) Section 9 of the approved EMS provides references to management plans approved under the conditions of SSD 9697. (ii) Section 9 of the approved EMS provides a monitoring and inspection program summary.
D2	**Ash Recycling Strategy** By the end of March each year, or other timeframe agreed by the Planning Secretary, a report shall be submitted to the Department to demonstrate annual progress of reuse and recycling of ash, to the satisfaction of the Planning Secretary. The strategy must: (a) outline the quantity of ash that is reused or recycled in the reporting period;	NT	RH (pers comm) confirmed that the strategy does not apply to the current stage of the project.
	(b) identify the estimated quantity of ash to be reused or recycled in the following reporting period, having regard to anticipated market conditions; and	NT	See comment in Schedule 2, Condition D2 (a) above.
	(c) include a program for the investigation of alternative ash management measures over time, with a particular focus on the minimisation of ash disposal on site and beneficial reuse of ash.	NT	See comment in Schedule 2, Condition D2 (a) above.
REVISION OF STRATEGIES, PLANS AND PROGRAMS			
D3	Within 3 months, unless the Planning Secretary agrees otherwise, of: (a) the submission of an incident report under condition D4 below;	NT	There have been no submissions of incident reports in relation to the project.
	(b) the submission of an audit report under condition D12 below; and	NT	There have been no previous audit reports required under Schedule 2, Condition D12.

Cond	Project Approval SSD 9697	Status	Evidence
	(c) the approval of any modification to the conditions of this consent; or	NT	No modifications to SSD 9697 have been approved by DPE.
	(d) a direction of the Secretary under condition A3 of Schedule 2; the Applicant must review and, if necessary, revise the studies, strategies or plans required under the conditions of consent to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted to the Secretary for approval, unless otherwise agreed with the Secretary. ***Note:*** *This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development.*	NT	JM (pers comm) confirmed there have been no written directions made by the Secretary regarding the project.
COMPLIANCE			
D4	**Incident Notification, Reporting and Response** The Planning Secretary must be notified in writing via the Major Projects website immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 4.	NT	JM (pers comms) confirmed no notifiable incidents have been identified in relation to the project during the audit period.
D5	**Non-Compliance Notification** The Planning Secretary must be notified in writing via the Major Projects website within seven days after the Applicant becomes aware of any non-compliance.	NT	See Schedule 2, Condition D4.
D6	A non-compliance notification must identify the development and the application number for it, set out the condition of approval that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.	NT	See Schedule 2, Condition D4.
D7	A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.	NT	See Schedule 2, Condition D4.
D8	**Compliance Reporting** Compliance Reports of the project must be carried out in accordance with the Compliance Reporting Requirements outlined in the Compliance Reporting Post Approval Requirements (2020, or its latest version).	NT	A 52 week period has not elapsed from the date of commencement and as such, the requirement for a project Compliance Report has not been triggered.
D9	Compliance Reports must be submitted to the Department in accordance with the timeframes set out in	NT	See Schedule 2, Condition D8.

Cond	Project Approval SSD 9697	Status	Evidence
	the Compliance Reporting Post Approval Requirements (2020, or its latest version), unless otherwise agreed to by the Planning Secretary.		
D10	The Applicant must make each Compliance Report publicly available within 60 days of submitting it to the Planning Secretary, unless otherwise agreed by the Planning Secretary.	NT	See Schedule 2, Condition D8.
D11	Notwithstanding the requirements of the Compliance Reporting Post Approval Requirements (2020, or its latest version), the Planning Secretary may approve a request for ongoing annual operational compliance reports to be ceased, where it has been demonstrated to the Planning	NT	See Schedule 2, Condition D8.
INDEPENDENT ENVIRONMENTAL AUDIT			
D12	Independent Audits of the development must be conducted and carried out in accordance with the Independent Audit Post Approval Requirements (2020, or its latest version).	C	This IEA (see **Appendix C**).
D13	Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the commencement of an Independent Audit.	**NC**	Sighted DPE endorsement letter dated 16/12/22 approving the appointment of James Bailey & Associates to prepare the initial IEA report for the construction phase of the project. **Written approval from DPE for JBA to complete the audit occurred after commencement of this IEA.** **It is recommended that AGL obtains an endorsement letter from the DPE prior to next audit.**
D14	The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in the Compliance Reporting Post Approval Requirements (2020, or its latest version), upon giving at least 4 weeks' notice (or timing) to the Applicant of the date upon which the audit must be commenced.	NT	Noted.
D15	In accordance with the specific requirements in the Independent Audit Post Approval Requirements (2020, or its latest version), the Applicant must: (a) review and respond to each Independent Audit Report prepared under condition D12 of this approval, or condition D14 where notice is given by the Planning Secretary;	NT	AGL to review and respond to this IEA.
	(b) submit the response to the Planning Secretary; and	NT	AGL to review and respond to this IEA.
	(c) make each Independent Audit Report, and response to it, publicly available within 60 days of submission to the Planning Secretary. unless otherwise agreed by the Planning Secretary.	NT	Deemed as Not Triggered. AGL to make this IEA and response publicly available

Cond	Project Approval SSD 9697	Status	Evidence
			following completion of the audit process.
D16	Independent Audit Reports and the Applicant's response to audit findings must be submitted to the Planning Secretary within 2 months of undertaking the independent audit site inspection, as outlined in the *Independent Audit Post Approvals Requirements* (2020) unless otherwise agreed by the Planning Secretary.	**NC**	**The site inspection for this IEA was conducted on 30 November 2022, therefore the IEA report and AGL response has exceeded the two month requirement for submission to the Planning Secretary.** **It is recommended that AGL submit this IEA report and their response to DPE as soon as possible following completion of the audit.**
D17	Notwithstanding the requirements of the Independent Audit Post Approval Requirements (2020, or its latest version), the Planning Secretary may approve a request for ongoing independent operational audits to be ceased, where it has been demonstrated to the Planning Secretary's satisfaction that independent operational audits have demonstrated operational compliance.	NT	There have been no requests made by AGL to cease ongoing independent operational audit requirements.
ACCESS TO INFORMATION			
D18	Before the commencement of construction until the completion of all rehabilitation required under this approval, the Applicant must: (a) make the following information and documents (as they are obtained, approved or as otherwise stipulated within the conditions of this consent) publicly available on its website: (i) the EIS; (ii) all current statutory approvals for the development; (iii) all approved strategies, plans and programs required under the conditions of this consent; (iv) the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged; (v) regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent; (vi) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; (vii) a summary of the current phase and progress of the development; (viii) contact details to enquire about the development or to make a complaint;	**NC**	i) The EIS is publicly available on the AGL Macquarie website. ii) Development Consent SSD 9697 and EPL 779 are publicly available on the AGL Macquarie website. iii) EMS, CEMP, WMP, BMP and the ACHMP are publicly available on the AGL website. The Salt Cake Landfill Environmental Management Plan, Rehabilitation Strategy, Ash Recycling Strategy are yet to be approved. iv) Stage 1 and Stage 2 of the project are outlined on the website. **v) Environmental performance reporting for the project was not available on the AGL website at**

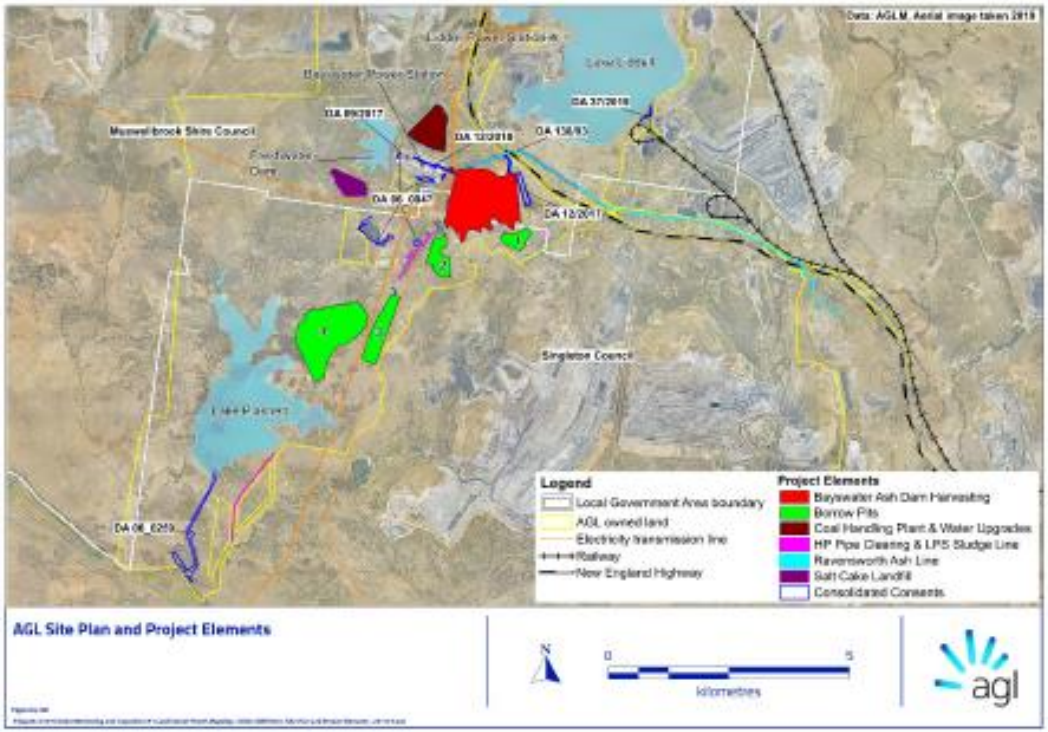
Cond	Project Approval SSD 9697	Status	Evidence
	(ix) a complaints register, updated monthly; (x) audit reports prepared as part of any Independent Environmental Audit of the development and the Applicant's response to the recommendations in any audit report; (xi) any other matter required by the Planning Secretary; and		**the time of the audit.** It is noted that the AGL website has since been updated in March 2023 to include environmental performance reporting for the project. vi) **Environmental monitoring results for the project were not available on the AGL website at the time of the audit.** It is noted that the AGL website has since been updated in March 2023 to include environmental monitoring data for the project. vii) Project overview and purpose available on the AGL website. viii) Complaints and Enquiries hotline number, email address and postal address are available on the website. ix) **The complaints register was not able to be accessed on the AGL website at the time of the audit.** It is noted that the AGL website has since been updated in March 2023 and the complaints register is now available. x) Nil previous IEAs. xi) Nil other matters required by the Planning Secretary. **It is recommended that all information and documents (as they are obtained, approved or as otherwise stipulated within the conditions of this consent) noted in Condition D18 of SSD 9697 are**

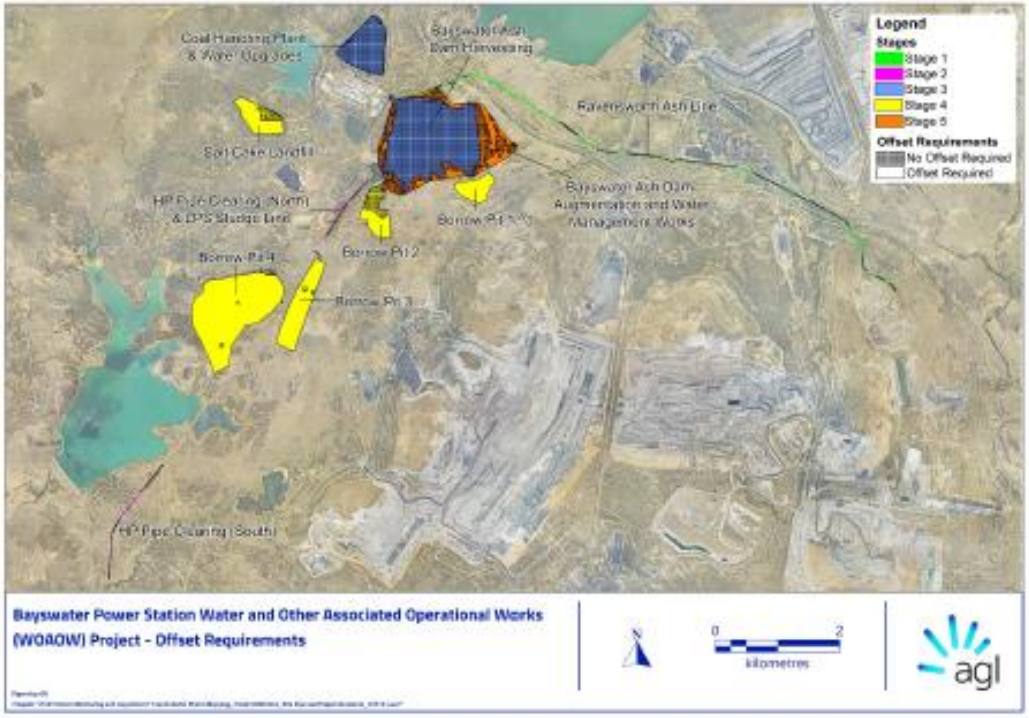
<table>
<tr><th>Cond</th><th>Project Approval SSD 9697</th><th>Status</th><th>Evidence</th></tr>
<tr><td></td><td></td><td></td><td>made publicly available on the AGL website.</td></tr>
<tr><td></td><td>(b) keep such information up to date, to the satisfaction of the Planning Secretary.</td><td>NC</td><td>See Schedule 2, Condition D18 (a) above.</td></tr>
<tr><td colspan="2">SCHEDULE 2, PART E: CONDITIONS EXTRACTED FROM THE CONSENTS REFERRED TO IN CONDITION A6</td><td></td><td></td></tr>
<tr><td></td><td>Note: For the avoidance of doubt, a consent listed in condition A6 will be surrendered and cease to operate from the date on which a valid notice is served on the consent authority pursuant to cl 97 of the EP&A Regulation. The conditions listed in this Part E are drawn from the consents listed in condition A6 but form part of this consent from the date of this consent.</td><td>NT</td><td>Note only.</td></tr>
<tr><td colspan="2">CONDITIONS FROM DA 12/2017
REPLACEMENT OF 600M OF ASBESTOS CEMENT PIPELINE ON THE BAYSWATER ASH DAM RETURN WATER LINE (MUSWELLBROOK SHIRE COUNCIL)</td><td></td><td></td></tr>
<tr><td>E1</td><td><u>Development in Accordance with Documentation</u>
Development of the Cement Pipeline on the Bayswater Ash Dam Return Line is to be carried out generally in accordance with the following document:<table><tr><th>Title</th><th>Written By</th><th>Date</th></tr><tr><td>Statement of Environmental Effects - Bayswater Ash Dam Return Water Pipeline Replacement</td><td>AECOM</td><td>February 2017</td></tr></table></td><td>NT</td><td>RH (pers comm) confirmed DA 12/2017 is not related to the current stage of the project.</td></tr>
<tr><td colspan="2">CONDITIONS FROM DA 89/2017
CONSTRUCTION OF A NEW 3/4 EFFLUENT DRAIN SUMP TO REPLACE EXISTING SUMP (MUSWELLBROOK SHIRE COUNCIL)</td><td></td><td></td></tr>
<tr><td>E2</td><td><u>Development in Accordance with Documentation</u>
Development of the Construction of a New 3/4 Effluent Drain Sump to Replace Existing Sump is to be carried out generally in accordance with the following document:<table><tr><th>Title</th><th>Written By</th><th>Date</th></tr><tr><td>Bayswater 3/4 Sump Pit Reconstruction - Statement of Environmental Effects</td><td>GHD</td><td>July 2017</td></tr></table></td><td>NT</td><td>RH (pers comm) confirmed DA 89/2017 is not related to the current stage of the project.</td></tr>
<tr><td colspan="2">CONDITIONS FROM DA 12/2018</td><td></td><td></td></tr>
</table>

<table>
<tr><th>Cond</th><th>Project Approval SSD 9697</th><th>Status</th><th>Evidence</th></tr>
<tr><td colspan="2">CONSTRUCTION OF PIPELINE TO CONNECT TO RAVENSWORTH ASH LINE TO ENABLE TRANSFER OF WATER FROM BAYSWATER ASH DAM TO RAVENSWORTH VOID FOUR (MUSWELLBROOK SHIRE COUNCIL)</td><td></td><td></td></tr>
<tr><td>E3</td><td><u>Development in Accordance with Documentation</u>
Development of the Construction of Pipeline to Connect to Ravensworth Ash Line to Enable Transfer of Water from Bayswater Ash Dam to Ravensworth Void Four is to be carried out generally in accordance with the following document:
<table><tr><th>Title</th><th>Written By</th><th>Date</th></tr><tr><td>Statement of Environmental Effects - Bayswater Ash Dam Overland Water Pipeline</td><td>AECOM</td><td>November 2017</td></tr></table></td><td>NT</td><td>RH (pers comms) confirmed that the Ravensworth Ash Line approved under the earlier DA 12/2018 has not been constructed. There are no current plans to develop this infrastructure.</td></tr>
<tr><td>E4</td><td><u>Pipeline Construction</u>
Prior to the completion of the pipeline installation and prior to the issue of any Occupation Certificate the following are to be installed in the manner set-out by this condition.
(a) An anti-siphon device is to be installed to prevent the possible continuation of water flow out of the ash dam once the pump is turned off, and,</td><td>NT</td><td>See comments in Schedule 2, Condition E3.</td></tr>
<tr><td></td><td>(b) A gate valve is to be placed in the existing pipeline to prevent flow back into the pipeline if needed.</td><td>NT</td><td>See comments in Schedule 2, Condition E3.</td></tr>
<tr><td colspan="2">CONDITIONS FROM MP 06_0047
BAYSWATER WATER TREATMENT PLANT UPGRADE (PLANNING SECRETARY)</td><td></td><td></td></tr>
<tr><td>E5</td><td><u>Development in Accordance with Documentation</u>
Development of the Bayswater Water Treatment Plant Upgrade is to be carried out generally in accordance with the following documents:
<table><tr><th>Title</th><th>Written By</th><th>Date</th></tr><tr><td>Environmental Assessment, Proposed Bayswater Power Station Upgrade, Submission to NSW Department of Planning</td><td>HLA Envirosciences</td><td>February 2006</td></tr><tr><td>Water Treatment Plant Upgrades Environmental Assessment</td><td>WSP</td><td>December 2017</td></tr></table></td><td>NT</td><td>RH (pers comm) confirmed MP 06_0047 is not related to the current stage of the project.</td></tr>
<tr><td>E6</td><td>The Applicant must carry out rehabilitation of the works associated with the Water Treatment Plant Upgrade (including the brine concentrator decant basin) to the satisfaction of the Planning Secretary</td><td>NT</td><td>See comments in Schedule 2, Condition</td></tr>
</table>

<table>
<tr><th>Cond</th><th>Project Approval SSD 9697</th><th>Status</th><th>Evidence</th></tr>
<tr><td></td><td>within 5 years of the commencement of decommissioning of the project unless the Planning Secretary agrees otherwise. The rehabilitation must comply with the objectives in the table below.
Rehabilitation objectives<table><tr><th>Feature</th><th>Objective</th></tr><tr><td>Surface infrastructure, including pipelines</td><td>• To be decommissioned and removed, unless the Planning Secretary agrees otherwise</td></tr><tr><td>Land use</td><td>• Restore land capability to pre-existing uses, unless the Planning Secretary agrees otherwise</td></tr></table></td><td></td><td>E6.</td></tr>
<tr><td>E7</td><td>A Construction and Demolition Safety Study for the Bayswater Water Treatment Plant Upgrade, must be prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 7 – Construction Safety Guidelines. The study must specifically identify and address potential hazards associated with the project and its interaction with other parts of the Power Station while the works permitted under this approval are undertaken.</td><td>NT</td><td>See comments in Schedule 2, Condition E6.</td></tr>
<tr><td colspan="2">CONDITIONS FROM 06_0259
BAYSWATER POWER STATION WATER PUMPING STATION UPGRADE (PLANNING SECRETARY)</td><td></td><td></td></tr>
<tr><td>E8</td><td><u>Development in Accordance with Documentation</u>
Development of the Bayswater Power Station Water Pumping Station Upgrade is to be carried out generally in accordance with the following document:<table><tr><th>Title</th><th>Written By</th><th>Date</th></tr><tr><td>Macquarie Generation Hunter River Pump Station Augmentation, Environmental Assessment as modified by Macquarie Generation Modification to Project Approval</td><td>Macquarie Generation</td><td>September 2007</td></tr></table></td><td>NT</td><td>RH (pers comm) confirmed MP 06_0259 is not related to the current stage of the project.</td></tr>
<tr><td>E9</td><td>The Applicant must continue to implement the approved Ecology Management Plan for the Bayswater Power Station Water Pumping Station Upgrade.</td><td>NT</td><td>See comments in Schedule 2, Condition E8.</td></tr>
<tr><td colspan="2">APPENDIX 1: SCHEDULE OF LAND</td><td></td><td></td></tr>
</table>

<table>
<tr><th>Cond</th><th>Project Approval SSD 9697</th><th>Status</th><th>Evidence</th></tr>
<tr><td></td><td>
<table>
<tr><th>Lot Number</th><th>Deposited Plan</th><th>Lot Number</th><th>Deposited Plan</th></tr>
<tr><td>601</td><td>1019325</td><td>2</td><td>619383</td></tr>
<tr><td>112</td><td>1059007</td><td>10</td><td>700554</td></tr>
<tr><td>2</td><td>1095515</td><td>19, 30, 62, 75, 86, 88, 89, 150, 151, 331</td><td>752468</td></tr>
<tr><td>1</td><td>113655</td><td>1, 2</td><td>774679</td></tr>
<tr><td>1</td><td>1142103</td><td>1</td><td>369326</td></tr>
<tr><td>2012</td><td>1151790</td><td>102</td><td>1053098</td></tr>
<tr><td>1</td><td>1158700</td><td>14</td><td>1193430</td></tr>
<tr><td>120</td><td>1174907</td><td>1</td><td>252530</td></tr>
<tr><td>1</td><td>1175303</td><td>2</td><td>327372</td></tr>
<tr><td>1, 2</td><td>1193248</td><td>5, 6</td><td>966589</td></tr>
<tr><td>910</td><td>1123501</td><td>107</td><td>547864</td></tr>
<tr><td>3</td><td>1193253</td><td>4</td><td>1193254</td></tr>
<tr><td>10</td><td>1204457</td><td>1, 2</td><td>574168</td></tr>
<tr><td>4, 6, 9, 11</td><td>247943</td><td>1</td><td>616024</td></tr>
<tr><td>13, 15</td><td>247945</td><td></td><td></td></tr>
<tr><td>1</td><td>616025</td><td></td><td></td></tr>
</table>
</td><td>C</td><td>Construction activities at the time of the audit have been undertaken in accordance with the schedule of land in Appendix 1 of SSD 9697.</td></tr>
</table>

Cond	Project Approval SSD 9697	Status	Evidence
APPENDIX 2: GENERAL LAYOUT OF THE DEVELOPMENT			
		C	The site inspection confirmed that the site layout and operations to date were generally consist with the general layout of the Ravensworth Ash Line shown in Appendix 2 of SSD 9697.

Cond	Project Approval SSD 9697	Status	Evidence
APPENDIX 3: BIODIVERSITY OFFSET STAGES			
		C	See comments on Schedule 2, Conditions B10 – B13 regarding the implementation of offsets for the Ravensworth Ash Line (Stage 1) shown in Appendix 3 of SSD 9697.
APPENDIX 4: INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS			
WRITTEN INCIDENT NOTIFICATION REQUIREMENTS			
1	A written incident notification addressing the requirements set out below must be submitted to the Secretary via the Major Projects website within seven days after the Applicant becomes aware of an incident. Notification is required to be given under this condition even if the Applicant fails to give the notification required under condition D5 or, having given such notification, subsequently forms the view that an incident has not occurred.	NT	JM (pers comms) confirmed there have been no notifiable incidents related to the project.

Cond	Project Approval SSD 9697	Status	Evidence
2	Written notification of an incident must: (c) identify the development and application number; (a) provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);	NT	See comment in Appendix 4, Condition 1.
	(b) identify how the incident was detected;	NT	See comment in Appendix 4, Condition 1.
	(c) identify when the Applicant became aware of the incident;	NT	See comment in Appendix 4, Condition 1.
	(d) identify any actual or potential non-compliance with conditions of approval;	NT	See comment in Appendix 4, Condition 1.
	(e) describe what immediate steps were taken in relation to the incident;	NT	See comment in Appendix 4, Condition 1.
	(f) identify further action(s) that will be taken in relation to the incident; and	NT	See comment in Appendix 4, Condition 1.
	(g) identify a project contact for further communication regarding the incident.	NT	See comment in Appendix 4, Condition 1.
3	Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Secretary, the Applicant must provide the Secretary and any relevant public authorities (as determined by the Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.	NT	See comment in Appendix 4, Condition 1.
4	The Incident Report must include: (a) a summary of the incident;	NT	See comment in Appendix 4, Condition 1.
	(b) outcomes of an incident investigation, including identification of the cause of the incident;	NT	See comment in Appendix 4, Condition 1.
	(c) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and details of any communication with other stakeholders regarding the incident.	NT	See comment in Appendix 4, Condition 1.

Table C2 Summary of Environmental Management Measures, Bayswater WOAOW EIS (Jacobs, 2020)

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
General and design commitments				
D01	The ongoing design of Project components would adopt the identified performance outcomes for the Project as identified in the EIS.	Pre-construction of applicable components	C	Design of the Stage 1 (Ravensworth Ash Line) project elements being constructed at the time of audit were generally in accordance with that identified EIS.
D02	The detailed design of the Ravensworth Ash Line would consider and address subsidence risks.	Pre-construction of applicable components	C	Sighted Subsidence Advisory NSW letter dated 21 June 2022, which notes that Subsidence Advisory NSW has received and accepts the GHD mine subsidence desktop study report (Ref: AGLM-CPG-049-RPT-011, dated 21 March 2022) and its recommendations. GHD drawings include measures to address potential subsidence risks to the Ravensworth Ash Pipeline.
D03	The detailed design of each Project component would consider and address seismic risks.	Pre-construction of applicable components	NT	RH (pers comms) confirmed that seismic risk assessment is not related to the current stage of the project. Seismic risk assessment is related to Dam wall work and not the pipeline replacement project. **It is recommended that potential seismic risks for future stages of the project are considered and that associated**

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				environmental management plans are updated by AGL, as required.
D04	The detailed design of the ash dam augmentation would involve the reassessment of the societal risk and individual risk and consequence category of the BWAD. The detailed design and supporting assessments would be provided to Dams Safety as per the requirements of the Dams Safety Act 2015 and associated guidelines and methodologies. Copies of assessments would be provided to Transport for NSW.	Pre-construction of applicable components	NT	RH (pers comms) confirmed that the Bayswater Ash Dam (BWAD) augmentation component of the project had not commenced at the time of audit.
D05	The design of the salt cake landfill would comply with the EPA's Environmental Guidelines: Solid Waste Management in consultation with the EPA as the appropriate regulator. Risks to liner degradation due to geochemical interactions with saline leachate would be considered and addressed in detailed design as per commitment GW03.	Pre-construction of applicable components	NT	RH (pers comms) confirmed that the salt cake landfill design component of the project had not commenced at the time of audit.
D06	Seepage improvement works would be sized and design to maximise seepage collection and return in accordance with the outcomes of ongoing pollution reduction investigation process under EPL799. Seepage improvement works would produce improved environmental outcomes on a do nothing scenario. Seepage improvement works would be undertaken prior use of expanded capacity of the ash dam augmentation.	Pre-construction of applicable components	NT	RH (pers comms) confirmed that the BWAD augmentation component of the project had not commenced at the time of audit.
D07	Coal handling and preparation plant water management improvements would be implemented in accordance with the outcomes of the ongoing pollution reduction investigation process under EPL799.	Pre-construction of applicable components	NT	RH (pers comms) confirmed that the BWAD augmentation component of the project had not commenced at the time of audit.
D08	A risk assessment would be completed on the actual methods to be implemented and an environmental management plan prepared that incorporates the Project commitments and conditions of approval. Further consultation with relevant agencies would be undertaken and necessary approvals of final designs and methods sought.	Pre-construction of applicable components	C	Section 4.1 of the 2022 CEMP provides a Risk Assessment to identify environmental risks during construction. It is noted that a risk assessment workshop was conducted between AGL and the project construction contractor Monadelphous to assess the level

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				of risk for all identified environmental hazards and to ensure that a suitable suite of preventative and mitigating controls were in place. Sighted 'Bayswater Pipeline Project – Environmental Risk Register' dated 6 April 2022 for the Bayswater Fly Ash Plant Upgrade – Ravensworth Ash Line. The risk register includes activities associated with the project and identifies hazards, risks, preventative measures and mitigation measures.
D09	The design and implementation of works within waterfront land would be undertaken in accordance with Guidelines for Controlled Activities on Waterfront Land (NRAR, 2018).	Pre-construction of applicable components	C	Design and implementation of works within waterfront land for Stage 1 of the project are described in the 'Bayswater Power Station Ravensworth Ash Line Water Management Plan – Construction (Rev 1, dated 11 August 2022)', approved by DPE on 17 August 2022 (WMP).
D10	An overarching Construction Environmental Management Strategy (CEMS) would be developed for the Project that would be adopted and implemented through the development of contractor's Construction Environmental Management Plans (CEMP) for each Pre-construction of applicable component. The CEMS would document the required environmental performance outcomes for the Project and each CEMP would document reasonable and feasible measures for the Project component to achieve these outcomes.	Pre-construction of applicable components	C	AGL have developed and implemented the 'Ravensworth – Bayswater Ash Line Construction Environmental Management Plan AGLM-CPG-049-RPT-009', as approved by DPE letter date 16 August 2022 (CEMP).
D11	Risk assessments, final design plans and management plans for each component would be made publicly available and be used to confirm that no	Pre-construction of applicable components	C	See comments on Commitment D08.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	greater impact than that assessed in the EIS would eventuate. Should additional impacts be identified, any necessary modifications to the approval and/or EPL would be sought.			
D12	The existing operational environmental management framework for Bayswater would be reviewed to incorporate commitments and approval conditions associated with the Project. In particular, the following Project components represent new or expanded operations that warrant new or revised management plans: • Salt cake landfill operation • Ash harvesting and recycling operations • Borrow Pits. All other Project components are the subject of existing operational management plans which would be revised to accommodate any new commitments and procedures as necessary.	Pre-construction of applicable components	C	AGL have prepared the following management plans relevant to Stage 1 of the project (Ravensworth Ash Pipeline): • 'Bayswater Power Station Ravensworth Ash Line Aboriginal Cultural Heritage Management Plan' (ACHMP), approved by DPE on 8 August 2022; • CEMP, approved by DPE on 16 August 2022; • 'Bayswater WOAOW Environmental Management Strategy', approved by DPE on 17 August 2022 (EMS); • WMP, approved by DPE on 17 August 2022; and • 'Biodiversity Management Plan Ravensworth – Bayswater Ash Line Upgrade', approved by DPE on 17 August 2022 (BMP).
D13	If during detailed design any impacts to existing utilities are identified, the relevant authorities will be contacted.	Pre-construction of applicable components	C	Viewed AGL Bayswater Power Station Fly Ash Plant Upgrade Design drawings dated 14 January 2022. Drawings show the locations of existing utilities in proximity to project work sites.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
Biodiversity				
BD01	Opportunities to limit the extent of vegetation (including hollow-bearing trees and stags) clearance required would be considered as part of detailed design and construction planning.	Pre-construction	C	Viewed 'Ravensworth Ash Line Pre-construction Inspection' dated 26 September 2022, as prepared by Kleinfelder Australia. The Kleinfelder letter documents an ecological inspection undertaken to ensure that appropriate management measures were in place prior to construction, consistent with the approved BMP. This includes the identification of habitat features and delineation of avoidance areas to minimise impact to these areas.
BD02	A Biodiversity Management Plan would be prepared as part of the CEMS and include the following requirements: • Clearly delineate the boundaries of the Project area to prevent any unnecessary clearing beyond its extent; • Ensure vehicle and equipment parking areas and stockpile areas are identified and sited to avoid areas containing ecological value; • Install appropriate signage such as 'No Go Zone' or 'Environmental Protection Area'; • Identify and communicate the location of any 'No Go Zones' in site inductions; • Speed limits within the Project area would be limited to 40 km/hr to minimise the risk of vehicle collision with fauna. The Biodiversity Management Plan would also consider measures to mitigate impacts on flora and fauna from noise, vibration, waste, and air pollution, in accordance with the mitigations identified in this EIS.	Construction	C	Sighted DPE letter of 17 August 2022 approving the BMP. DPE approval letter notes that the Stage 1 BMP [for the Ravensworth Pipeline] has been prepared in consultation with the Department's Biodiversity, Conservation and Science Directorate. Section 3.2.2 of the BMP notes AGL will identify and designate vehicle and equipment parking areas and stockpile areas. Areas containing high ecological value will be avoided. The site inspection confirmed that 'No Go Zones' are in place to protect

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				areas of higher ecological values (see **Plate 10**). Section 3.3.1 of the BMP notes that contractors will be informed of 'No Go Zones' to prevent any clearing beyond the approved extent works. This requirement to avoid 'No Go Zones' is outlined in inductions delivered to construction contractor personnel, including 'Project BI40000 – AGL Bayswater FAPU and SPR Project Induction Final Version'. Section 3.3.1 of the BMP also notes that Speed limits within the Subject Site would be limited to 40 km/hr. The site inspection confirmed that 40 km/hr speed limit signs are in place (see **Plate 7**). Section 3.3.1 of the BMP notes that Construction works are only to occur during the day to minimise impacts on nocturnal fauna from noise. JM (pers comms) confirmed that construction works are only undertaken during the day.
BD03	Prior to the removal of hollow-bearing trees / habitat trees, a pre- clearing protocol would be implemented which would include the following requirements: • Pre-clearance surveys would be undertaken to determine if any inhabiting fauna are present;	Construction	C	See comments on Commitment D08.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	• A suitably qualified and trained fauna handler would be present during hollow-bearing tree clearing to rescue and relocate displaced fauna; • Appropriate exclusion fencing around trees and woodland that are to be retained within the Project area would be erected, considering allowance for Tree Protection Zones in accordance with the Standards Australia (2009).			
BD04	Clearing would be avoided, where practicable, during breeding and through egg hatching periods for the Striped Legless Lizard, November to February. If clearing is to occur during this period (November to February): • Pre-clearing surveys within areas of Striped Legless Lizard habitat will be conducted; • Any individuals captured during these pre-clearing surveys will be relocated into similar habitat outside the Development Site.	Construction	C	JM (pers comms) confirmed that AGL is avoiding November – February clearing. Section 3.3.2 of the BMP notes that vegetation clearing will not occur inside of the breeding and egg maturation periods (November through to February) for the Striped Legless Lizard (*Delma impar*). Additionally, clearing will be avoided, where possible, during or the months of Spring to avoid the peak breeding period of hollow-dependent fauna.
BD05	Weeds and pathogens would be managed in accordance with applicable legislative requirements including and not limited to the Biosecurity Act 2015 (NSW). The following measures would be implemented to prevent the transfer of weeds and pathogens: • Plant and equipment would be required to arrive at site clean; • Soil and seed material transfers would consider the risks of weeds and pathogens being present and the sensitivity of the receiving area. No transfers are to occur to relatively less disturbed areas of site unless material can be determined to be from a non-weed infested area and not contain pathogens; • Weed infestations within the construction footprint are to be identified and mapped prior to construction.	Construction	**NC**	Sighted weed and pest free inspection form dated 5 December 2022 for Plant ID 59/AETB12681 that declares the plant has been cleaned and inspected and is free from weeds, seeds, pathogens and pests. Sighted weed and pest free inspection form dated 15 December 2022 for Plant ID PR1 that declares the plant has been cleaned and inspected and is free

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	Methods to be implemented for the control of noxious weeds would be included in the CEMS and adopted as necessary in each CEMP. This is to include weed control works to be conducted throughout the construction phase of the Project, and follow-up weed control within the Development Site post construction.			from weeds, seeds, pathogens and pests. JM (pers comms) confirmed that soil and seed material does not get imported onto site unless the material can be determined to be free from a non-weed infested area and not contain any pathogens. **Records were not available to demonstrate that the identification and mapping of weed infestations within the Ravensworth Ash Line corridor had been completed prior to construction.** **It is recommended that records for weed infestations within the Ravensworth Ash Line construction footprint are monitored by AGL and any required treatment actions documented.** **Baseline monitoring for the presence of weeds should be completed prior to the commencement of construction for other approved components of the SSD 9697 project.**
BD06	If it is identified there is a Salt cake landfill lining failure and an associated increase in salinity in the groundwater, above background levels, then monitoring of vegetation within the predicted impact area would occur.	Operation	NT	JM (pers comms) confirmed that this condition does not apply to the current stage of the project.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	If during the monitoring of vegetation there is an identified impact on the vegetation due to the increased salinity from the Salt cake landfill, additional offsetting measures would be implemented where required. Credits retirement would be calculated based on the area of impact and the ratio of credits generated within the closest equivalent vegetation zone within the impact area.			
BD07	Upon the completion of extraction works within each Borrow Pit location, these areas would be rehabilitated. A rehabilitation plan for each Borrow Pit would be prepared prior to completion. Where the areas are to be returned to native vegetation, locally endemic species will be used for rehabilitation of appropriate vegetation communities, using locally sourced seeds/plants where possible.	Decommissioning	NT	JM (pers comms) confirmed that this condition does not apply to the current stage of the project.
BD08	Biodiversity offset credits would be retired in accordance with BC Act and EPBC Act requirements. The number and type of credits would be refined as part of further survey and detailed design. A clearing staging plan would be prepared prior to the commencement of works. From this plan the required biodiversity credits for each stage would be determined based on areas of impacts to each vegetation zone, and the retirement of biodiversity credits would occur prior to the commencement of each stage. This plan will be set out in a separate document to the BDAR and would be approved by DPIE prior to commencement of disturbance works.	Prior to clearing for each Project component.	C	JM (pers comms) confirmed that only Stage 1 has commenced during the audit period. Sighted BCT statement confirming payment into the Biodiversity Conservation Fund for an offset obligation; date received 16 May 2022, BCT reference BCF356. Section 2.2.3 of the approved BMP (see Commitment D12) describes vegetation clearing and habitat loss throughout the construction and operation phases of the project.
Surface Water				
SW01	An overarching Construction Environmental Management Strategy (CEMS) would be prepared for the Project and would require the preparation of a Construction Environmental Management Plan (CEMP) for each Project	Pre-construction Construction	**NC**	CEMP and EMS documents were approved by DPE on 16 and 17 August 2022, respectively.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	component. The CEMS would outline measures to manage soil and water impacts associated with the construction works. The CEMS would require that each CEMP would provide: • Measures to minimise/manage erosion and sediment transport both within the construction footprint and offsite including requirements for the preparation of erosion and sediment control plans for all progressive stages of construction; • Measures to manage stockpiles including locations, separation of waste types, sediment controls and stabilisation; • Measures to manage groundwater dewatering and impacts; • Processes for dewatering of water that has accumulated on site and from sediment basins, including relevant discharge criteria; • Measures to manage accidental spills including the requirement to maintain materials such as spill kits; • Measures to manage potential saline soils; • Details of surface water and groundwater quality monitoring to be undertaken prior to, throughout, and following construction; • Controls for receiving environments including: – Designation of 'no go' zones for construction plant and equipment; – Creation of catch/diversion drains and sediment fences at the downstream boundary of construction activities where practicable to ensure containment of sediment-laden runoff and diversion toward sediment sump treatment areas (not sediment basins) to prevent flow of runoff to nearby waterways.			Section 8.3 and Section 9 of the EMS describes surface water monitoring and management measures. Section 4.3 of the CEMP describes measures to minimise and manage erosion and sediment transport. The CEMP notes that the AGL Soil and Water Management Plan will outline the erosion and sediment control devices at all work sites prior to commencing works. These measures are also described in the approved WMP. Section 8.3 of the EMS describes stockpile siting and management requirements. Section 4.3 of the CEMP describes measures to manage stockpiles including locations, separation of waste types, sediment controls and stabilisation. Sighted Monadelphous signage during the site inspection that identifies approved stockpile areas (see **Plate 12**). Sighted internal AGL email correspondence dated 13 October 2022 that identifies topsoil stockpile locations and best practice procedure, including topsoil not to be stockpiled higher than 3 metres, seed with a sterile seed mix if the stockpile will be there longer than

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				6 months, record the GPS coordinates of the stockpile so it can be tracked in the GIS and used for rehabilitation, install a sign showing it is a topsoil stockpile. Section 8.3 of the EMS describes mitigation measures for all project stages including developing a construction water quality monitoring program with measures to manage groundwater dewatering and impacts. The CEMP does not include measures to manage groundwater dewatering and associated impacts expected from later stages of the project (none are required for the Ravensworth Ash Line component). **It is recommended that the CEMP is reviewed and updated to include contingency measures to manage groundwater dewatering and impacts for the various project stages.** Section 8.3 of the EMS describes mitigation measures for all project stages including the development of a construction water quality monitoring program that includes measures

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				to manage accidental spills and maintenance of spill kits. Section 4.4 of the CEMP describes groundwater actions including the maintenance of spill kits on site. Viewed examples of Daily Checks completed by the construction contractor for spill kits. **The CEMP does not include measures to manage potential saline soils.** **It is recommended that the CEMP is reviewed and updated to include measures to manage potential saline soils.** Section 8.3 of the EMS notes that a construction water quality monitoring program is to be developed where appropriate and included in the CEMP, to observe changes to surface water and groundwater during construction. Section 4.3 of the CEMP includes details of surface water and groundwater quality monitoring to be undertaken prior to, throughout, and following construction. The CEMP notes prior to construction of the Ravensworth Ash Line commencing water quality monitoring will be undertaken upstream and downstream of the

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				project area using calibrated, handheld water quality meter, to analyse for the following parameters: pH, EC, and turbidity and a visual assessment of oil and grease. Section 4.3 also notes water quality monitoring to be undertaken during and after construction. Viewed AECOM Water Monitoring Field Sheet and associated ALS lab certificates dated 20 January 2023 for upstream and downstream, locations on Chilcotts Creek, Pikes Creek and Bayswater Creek. Section 8.3 of the EMS includes the mitigation measure of developing a construction water quality monitoring program that controls for receiving environments (no go zones for plant and equipment, creation of catch/ diversion drains and sediment fences). Section 4.3 of the CEMP outlines management measures to minimise project impacts to surface water and hydrology. These include the requirement to implement erosion and sediment control (ESC) plans in accordance with the "Blue Book" for all stages on construction and

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				managing sediment-laden water that accumulates onsite. The CEMP does not detail the creation of catch/diversion drains and sediment fences at the downstream boundary of construction activities where practicable to ensure containment of sediment-laden runoff and diversion toward sediment sump treatment areas (not sediment basins) to prevent flow of runoff to nearby waterways. These measures, and an associated TARP for surface water management during construction, are described in the project WMP and construction contractor concept design drawings. Sediment fences and 'no go' signage has been installed at the project site, see **Plate 9**.
SW02	Erosion and sediment control measures will be implemented and maintained at all work sites in accordance with the principles and requirements in *Managing Urban Stormwater – Soils and Construction, Volume 1* (Landcom 2004) and Volume 2D (Department of Environment, Climate Change and Water, 2008), commonly referred to as the "Blue Book". Additionally, any water collected from worksites would be treated and discharged (where able) to avoid any potential contamination or local storm water impacts. Measures would be designed in accordance with the relevant guideline where appropriate.	Construction	C	The requirement to install and maintain Blue Book erosion and sediment controls and avoid potential impacts to local waters are described in the CEMP and WMP (see Commitment D12). The site inspection confirmed sediment controls have been installed generally in accordance with the 'Blue Book' and are being maintained, see **Plate 9**.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
SW03	Alternative water supply options to potable water would be investigated, with the aim of using recycled water where feasible. Measures would be implemented to reduce reliance on potable water use for both construction and operational phases of the Project where possible noting that AGL obtains the majority of its water from the Hunter River under AGL's existing Macquarie Generation Water Licensing Package dated April 2011. No additional water is required for the Project outside of this Water Licensing Package. Water use requirements and sources would be reviewed during the detailed design and construction planning, documented in each CEMP and implemented throughout the Project. Any existing Water Management Plans would be updated to incorporate any altered water use requirements during operational stages of the Project.	Construction Operation	C	Section 4.3 of the CEMP notes that recycled water will be used where possible, identify alternative potable water source and minimise the use of potable water use for construction of the project. Maximising reuse of water from existing AGL sources is also a performance measure outlined in the WMP. JM and RH (pers comms) confirmed that strategies are in place to reuse water where possible, including reuse of process water by project watercarts.
SW04	Stockpiles would be managed to minimise the potential for mobilisation and transport of dust, sediment and leachate in runoff. This would include: • Minimising the number of stockpiles, area used for stockpiles, and time that they are left exposed; • Locating stockpiles away from drainage lines, waterways and areas where they may be susceptible to wind erosion. Stabilising stockpiles, establishing appropriate sediment controls and suppressing dust as required.	Construction Operation	C	The site inspection confirmed that stockpiles are being managed in a way to minimise the potential for mobilisation and transport of dust, sediment and leachate in runoff, see **Plate 9**. Also see comments on erosion and sediment control management Commitment SW01.
SW05	A construction water quality monitoring program would be developed where appropriate and included in each CEMP for the Project to, observe any changes in surface water and groundwater during construction, and inform appropriate management responses. The program would be based on the water quality monitoring methodology, water quality indicators and the monitoring locations outlined in the CEMS.	Prior to construction, and during construction and operation	C	Section 4.3 of the CEMP notes that prior to construction of the Ravensworth Ash Line commencing, water quality monitoring will be undertaken upstream and downstream of the project area using a calibrated,

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	Sampling locations and monitoring methodology to be undertaken during construction would be further developed in detailed design in accordance with the ANZECC water quality guidelines (ANZECC/ARMCANZ (2000). It may include collection of samples for analysis from key locations, visual monitoring of other points of release of construction waters and monitoring of downstream waterways where appropriate. The monitoring frequency during construction would be confirmed during detailed design however would include at least monthly construction monitoring at all monitoring sites which would be preferentially monitored following wet weather events. Should the results of monitoring identify that the water quality management measures are not effective in adequately mitigating water quality impacts, additional mitigation measures would be identified and implemented as required.			handheld water quality meter, to analyse for the following parameters, pH, EC, and turbidity, and a visual assessment of oil and grease. Section 4.3 of the CEMP also notes water quality monitoring upstream and downstream of the construction works before, during and after the following: • Creek crossings (using underboring) • Where works are within 40 m of a waterway Conduct water quality monitoring upstream and downstream of the construction works pre and post rainfall events where greater than 20 mm of rain is predicted. JM (pers comms) confirmed that water quality monitoring is completed monthly. Sighted monthly surface water monitoring reports, including 'AGL Water Monitoring Report January 2023 SSD 9697 – Ravensworth Ash Line Upgrade' and associated AECOM field sheets and ALS lab certification.
SW06	The Bayswater site operational water quality monitoring program would be updated and implemented as required.	Prior to operation and during operation	C	Section 7,2 of the WMP states that '…For construction of the Ravensworth Ash Line, water quality monitoring of Pikes Creek, Baywater Creek, and

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				Chilcotts Creek will be undertaken by the Construction Contractor at suitable and safely accessible locations upstream and downstream from the construction works. Sighted AECOM Environment Surface Water Monitoring Field Sheet dated 20.01.23 for sample locations Chilcotts Upstream, Chilcotts Downstream, Pikes Gully Upstream, Pikes Gully Downstream, Bayswater Creek Upstream and Bayswater Creek Downstream. Sighted ALS Environmental Certificate of Analysis dated 24 January 2023 with analytical results for pH, Conductivity and Turbidity. Results are documented in monthly summary reports for the SSD 9697 project prepared by AGL.
SW07	The specific requirements for water quality controls would be confirmed as the detailed design develops and prior to commencement of construction of each Project element to ensure the objectives of the Project are achieved.	Prior to Construction	C	Water quality controls for this stage of the project are included in Section 6 of the WMP.
SW08	The following measures would be undertaken to manage activities in proximity to waterways: • Works within waterfront land would be managed in accordance with the relevant guideline as deemed appropriate; • Implementing practices to minimise disturbance of banks and undertaken bank stabilization.	Prior to construction and during construction	C	Section 6 of the WMP notes that construction works in proximity to waterways will be undertaken with the aim of minimising disturbance of banks. Where impacts cannot be avoided, bank stabilisation practices will be

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	Appropriate drainage features would be incorporated into the design of the Project elements by a suitably qualified and experienced professional. All Project elements would be designed and constructed in accordance with relevant guidelines.			implemented to stabilise the banks as soon as possible. JM confirmed (pers comms) there has been no development of new access tracks / water crossings for the project.
SW09	Borrow Pits would be designed to comply with design specifications to minimise interference and disruption of natural surface water flows and water quality, particularly impacts on turbidity.	All	NT	JM and RH (pers comms) confirmed that borrow pits are not required the current stage of the project.
SW10	Routine inspections and monitoring of the Ravensworth Ash line would be undertaken to ensure any leakages are promptly identified and fixed.	Operation	NT	JM and RH (pers comms) confirmed that routine inspections and monitoring for leakages are not required as the Ravensworth Ash Line has not been commissioned at the time of audit.
Flooding				
F01	Temporary works would consider flood risks during construction. Should construction staging require a temporary departure from the design (e.g. higher embankments for preloading, temporary diversions or temporary crossings of waterways), flood impacts would be assessed before finalising the approach.	Construction	C	Sighted Monadelphous Engineering Bayswater Fly Ash Plant Upgrade Flood Study Report AGLM-CPG-049-RPT-008.1 issued April 2022. The report outlines the flooding investigation carried out to support the design of the Bayswater Fly Ash Plant Upgrade. Results of the flood modelling shows there are sections of the pipeline that have been modelled to be inundated during the 1% AEP peak flood event. The mapping provided in

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				the report provides guidance on the elevation of floodwater crossing the pipeline to facilitate design of the pipe upgrade. The report notes that additional modelling of flows should be undertaken at the detailed design phase for the pipeline, in order to design erosion and scour protection for the support structures or alternatively rock protection could be determined using standard pier design practices.
F02	Where stockpiles are to be located in the floodplain, they would be located and sized to ensure no adverse impacts on flood behaviour.	Construction Operation	NT	JM and RH (pers comms) confirmed that there are no stockpiles on the floodplain.
F03	Flood management controls would be included as part of each CEMP. The controls would consider likelihood of flooding, flood evacuation routes, warning times and potential impacts from flooding from the Project. It would include, but not be limited to: • Any monitoring requirements to provide advance notice of a flood event; • Procedures (e.g. dam safety emergency plan) to be implemented in the event of a flood. Required training and staff inductions.	Prior to Construction Construction	NT	Section 4.3 of the CEMP notes that the project is not located on land that is mapped under the *Singleton Local Environment Plan 2013* as being susceptible to flooding. No mapping for flood prone land is available under the *Muswellbrook Local Environment Plan 2009*.
F04	Temporary crossings on water courses would be designed with consideration of flooding during construction and removal and rehabilitation following completion of construction.	Prior to Construction	NT	JM and RH (pers comms) confirmed that Ravensworth Ash Line works do not require constructing any temporary crossings. No temporary crossings were sighted during the site inspection.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
F05	Dam break inundation maps would be prepared based on two- dimensional hydraulic modelling software based on the current relevant guidelines presented in Australian Rainfall and Runoff (Ball J et al, 2019), ANCOLD and guidelines acceptable to Dams Safety NSW. The inundation maps would be utilised to confirm the consequence category for the dam.	Prior to Construction	NT	RH (pers comms) confirmed that dam inundation mapping is not required for the Ravensworth Ash Line component of the project.
F06	A detailed assessment of the flood handling capacity for the BWAD would be undertaken for each of the augmentation stages based on the current guidelines presented in Australian Rainfall and Runoff (Ball J et al, 2019). The consequence categories for each of the augmentation stages would be reassessed and inundation maps prepared to inform the Dam Safety Emergency Plan.	Prior to Construction	NT	JM and RH (pers comms) confirmed that a flooding assessment for the BWAD is not relevant to this stage of the project.
F07	A flooding assessment based on current guidelines from the Australian Rainfall and Runoff and using a two-dimensional hydraulic modelling software would be undertaken for: • The proposed Borrow Pits, to consider possible re-distribution of flood flows due to diversion and which may impact on scouring and bank erosion; • The Salt cake landfill, to demonstrate that the salt cake landfill facility would have no adverse impacts on flood behaviour up to and including the 1% AEP event.	Prior to Construction	NT	JM and RH (pers comms) confirmed that a flooding assessment for the proposed borrow pits and salt cake landfill is not relevant to this stage of the project.
F08	The design of the Ravensworth Ash line would confirm that the pipeline would have no adverse impacts on flood behaviour and the pipeline would be unlikely to be damaged or destroyed up to the designed storm event.	Prior to Construction	C	See comments in Commitment F01 above. The mapping provided within the Flood Study Report provides guidance on the elevation of floodwater crossing the pipeline to facilitate design of the pipe upgrade.
Groundwater				
GW01	Design Borrow Pit areas to avoid areas with shallow groundwater.	Prior to construction	NT	JM (pers comms) confirmed that the design of borrow pits is not

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				relevant to this stage of the project.
GW02	If groundwater is unexpectantly intersected during Borrow Pit excavations, excavations should cease in that area and the date, location, level and depth of groundwater interception should be documented and conveyed to a hydrogeologist to determine an appropriate course of action.	Construction	NT	JM (pers comms) confirmed that Borrow Pit excavations are not relevant to this stage of the project.
GW03	During detailed design, salt cake landfill design should ensure leachate and salt cakes would not geochemically compromise the elected liner type due to reactions. Since the salt is reported by the proponent to predominantly comprise gypsum, there may be a risk that this material (and leachate) could interact with clay liners and result in compromised liner integrity.	Prior to construction	NT	JM (pers comms) confirmed that the salt cake landfill design is not relevant to this stage of the project.
GW04	If drilling fluids are required, where possible, freshwater would be used. Where this is not possible, environmentally friendly biodegradable drilling fluid would be used where possible.	Construction	C	Section 4.4 of the CEMP notes the use of fresh water where drilling fluids are required. Where fresh water is not available environmentally friendly biodegradable drilling fluid will be used, and records retained. Evidence of materials requisition was not available at the time of the audit. RH (pers comms) noted no drilling has been required for project construction activities to the time of audit.
GW05	The above-ground sections of the Ravensworth ash line would be routinely checked for leaks. Observed leaks would be rectified.	Construction and operation	NT	JM and RM (pers comms) confirmed that routine leak inspections are not relevant to this stage of the project as the Ravensworth Ash Line has not been commissioned. Section 7.4 of the WMP includes a commitment that AGL will

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				complete and document daily physical inspections of the line, during operations.
GW06	To minimise the risk of spills/leaks of hazardous materials, the following would be undertaken: • Regular plant maintenance and checks; • Onsite spill kits and established spill clean-up procedures, which would include: • Having adequate spill prevention and absorbent materials (including absorbent pads, absorbent booms, granular absorbent and disposal bags) onsite to manage spills and leaks of potential pollutants; • Provision of appropriate equipment and materials to capture any drips and spills which occur during the transfer of potential pollutants, and when carrying out maintenance of hydrocarbon filled plant and equipment; • Procedures which ensure that spills of potential pollutants are contained and cleaned up immediately. Such spillage must not be cleaned up by hosing, sweeping, or otherwise releasing contaminants to any watercourse, waterway or groundwater; • Routine toolbox talks and safe work method statements which cover spill management protocols. Remediation of potential contamination sources and where possible removal of the contamination source (e.g. through offsite removal and disposal to an appropriately licensed waste facility).	Construction and operation	C	RH (pers comms) confirmed that maintenance of project plant and equipment is completed by contractors. Sighted examples of Service history sheets for project equipment, including: • 20t excavator maintenance dated 9 November 2022, (job code 3697723) for removing leaking quick hitch cylinder. • Sighted Service history for 20t excavator dated, 17 October 2022, (job code 3779284). Section 4.13 of the CEMP notes the requirement to store dangerous goods and hazardous materials in accordance with the requirements of applicable Australian Standards including bunding, ventilation, maintaining Safety Data Sheets, spill kits and use by appropriately trained personnel. Sighted Daily Pre-Start and De-Brief Meeting Form dated 23 November 2022. The form notes that a toolbox talk on spills was completed and a hand out given to participants.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				Sighted Daily Checks Sheet dated 13 December 2022 which records inspections of spill kits and confirms spill kits are stocked and accessible. Chemical storage container, portable bunds and spill kits were observed at the project construction compound during the site inspection (see **Plate 1**).
GW07	The BWAD seepage flow rate should be monitored during construction and operation, as well as the effectiveness of the two ash dam seepage collection dams. If monitoring indicates that after implementation of the proposed upgrades to the seepage collection dams that the dams are not effectively collecting seepage, then additional seepage collection dam upgrades should be made, or alternatively, the seepage collection system be re-designed and re-constructed.	Construction and operation	NT	JM (pers comms) confirmed that monitoring of BWAD seepage flow rate is not relevant to this stage of the project.
Air Quality				
AQ01	The CEMS would include requirements to monitor and manage potential air quality impacts associated with the construction of the Project. Each CEMP would identify project construction activities with the potential to have air quality impacts and the controls required to avoid, minimise and mitigate these impacts. The following measures would be implemented as required: • Where possible, limit the extent of exposed areas and quantity of stockpiled dispersible materials; • Minimise dust generation from stockpiles, haulage routes, work activities and exposed ground surfaces; • Minimise generator and vehicle emissions; • Apply suitable speed limits on site haulage routes to minimise dust emissions;	Construction	C	Section 8.7 of the EMS dated 11 August 2022 describes air quality management. Section 4.5 of the CEMP notes the following air quality management measures: • Limit the extent of exposed areas and quantity of stockpiled dispersible materials at any one time; • Turn off plant and vehicle when not in use; • Enforce site speed limits of 40 km/hr on site to minimise dust emissions;

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	• Undertake watering of all unsealed trafficked haulage routes to minimise visible dust emissions; • Apply watering to activities involving the loading and unloading, compaction and handling of soil materials as required; • Cover or minimise truck loads; • Modify or cease dust generating works during unfavourable weather conditions; and • Inspect and address corrective actions.			• Water unsealed trafficked haulage routes to minimise visible dust emissions; • Apply water when loading and unloading, compaction and handling soil materials; • Cover all truck loads; • Modify or cease dust generating works during unfavourable weather conditions. A water cart was sighted during the site inspection, see **Plate 8**. **It is recommended that the Daily Checks Sheet is reviewed and updated to include inspections for dust emissions.**
AQ02	During operation of the augmented BWAD, the following additional controls would be implemented: • Conduct routine inspections of the ash dam to identify whether cenospheres (floating ash) have accumulated in dry areas beyond the decant pond; • Where identified promptly bury, harvest or move dried cenospheres into the decant pond; • Where feasible, use less dispersive bottom ash to 'cap' fly ash deposits in the ash dam before they dry out; • As possible, restrict discharge from fly ash pipelines to one cell at a time, and utilise bottom ash to 'cap' before moving to the next cell; • Where feasible utilise temporary 'flooding' of individual ash dam cells prior to unfavourable meteorological conditions; • As applicable make use of new access tracks to apply water or dust suppressing agents.	Operation	NT	JM (pers comms) confirmed that the operation of the augmented BWAD is not relevant to the current stage of the project.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
AQ03	Undertake revegetation of rehabilitation areas at decommissioning.	Decommissioning	NT	JM (pers comms) confirmed that rehabilitation is not relevant to the current stage of the project.
Soil and Contamination				
SC01	Appropriate demarcation and restriction of access to previously identified asbestos impacted areas in the CHP Coal storage area and along the pipelines with the BWAD augmentation area should be undertaken to reduce potential exposure to workers in the short term.	Construction	NT	Section 4.6 of the CEMP notes asbestos is a potential contaminant of concern for the Ravensworth Ash Line construction work. Any asbestos encountered is to be managed in accordance with the AGLM Asbestos Management Procedure. RH (pers comm) confirmed that no asbestos material had been identified during construction work to the tine of audit.
SC02	Each CEMP would identify appropriate control measures to mitigate the potential for pollution incidents occurring that could lead to contamination of study areas. Each CEMP would also be required to include an unexpected finds protocol to manage actual or potential contamination encountered during construction. The protocol would include measures for appropriate sampling, analysis and interpretation of results by a qualified environmental consultant.	Construction	C	Section 2 of the CEMP notes that the project will operate under EPL 779 issued to AGL by the NSW EPA. Sections 4.3 – 4.5 of the CEMP describes control measures for potential pollution incidents to air and water. Sighted Daily Checks Sheet dated 13 December 2022 which records inspections of spill kits and confirms spill kits are stocked and accessible. Section 4.6 of the CEMP notes that where previously unidentified contamination is encountered that exceeds

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				notification thresholds, notification will be required under the CLM Act.
SC03	The Asbestos Management Procedure would be updated as required to provide appropriate control measures during the construction phase (as well as the operational phase if maintenance activities are required) to mitigate any risks of worker exposure to airborne asbestos fibres during work activities.	Construction/ Operation	C	Section 4.6 of the CEMP notes that asbestos will be managed in accordance with the AGLM Asbestos Management Procedure. Viewed a copy of the AGL Asbestos Management Procedure, AGLM-HSE-PRO-007.10.01 (dated 23 January 2023; reviewed annually). The document outlines responsibilities, procedures/ protocols and systems for effective management of asbestos and asbestos containing material and the minimisation of health risks associated with the presence of asbestos.
SC04	A rehabilitation plan would be developed covering all Project elements, which would include measures to remediate the land where required following decommissioning in accordance with State Environmental Planning Policy No 55—Remediation of Land.	Decommissioning	NT	JM (pers comms) confirmed the rehabilitation plan is not relevant to the current stage of the project.
Aboriginal Heritage				
AH1	The detailed design of the Project would seek to avoid impacts to Aboriginal sites and areas of PAD where possible.	Pre-construction	C	Section 3.1 of the Bayswater Power Station Ravensworth Ash Line – Aboriginal Cultural Heritage Management Plan (ACHMP) notes that one Aboriginal archaeological site, comprising a subsurface artefact

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				scatter has been identified within the ACHMP area. It is also noted that a second site would be impacted by the project however as part of detailed design works it was determined that this site could be avoided. As a result no impacts will occur to this site and associated mitigation measures are not required. **It is recommended that the ACHMP is updated at the next revision to reflect the avoidance of known heritage sites during the pre-construction design phase.** JM (pers comms) confirmed that no additional archaeological sites have been identified during construction.
AH2	Establish 'no-go' areas, through fencing or other appropriate measures, to protect all sites and areas of PAD (or portions thereof) that have been assessed as subject to potential indirect (inadvertent) impact.	Pre-construction	C	The audit site inspection confirmed that 'no go' areas have been established to protect all known Aboriginal heritage sites, see **Plate 3** and **Plate 4**.
AH3	Where direct impacts are proposed to occur to areas of PAD (including those areas of PAD associated with surface artefact scatters), the following process would be carried out prior to construction: • A program of detailed survey and test excavation would be carried out to assess the nature and significance of any subsurface archaeological material; • Develop further proposed management measures for areas of subsurface archaeological material, based on the results of test excavations. Management may include salvage excavation, or further design refinements to avoid impacts and establishment of no-go areas.	Pre-construction	C	The audit site inspection confirmed that 'no go' areas have been established to protect all known Aboriginal heritage sites, see **Plate 3** and **Plate 4**.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
AH4	Carry out collection of surface artefacts from all sites or portions of sites that would be impacted by the Project. Collection of surface artefacts and archaeological excavations would be undertaken by a qualitied archaeologist and Site Officers supplied by the RAPs.	Pre-construction	NT	JM (pers comms) confirmed no surface collection of artefacts has been undertaken during the audit period. Section 4.2 of the ACHMP describes an unanticipated finds protocol.
AH5	Cultural awareness induction for any personnel involved in ground breaking activities. This could include a Cultural Awareness Training Program.	Construction	C	JM (pers comms) confirmed all personnel complete an AGL induction prior to working on site which covers Aboriginal Heritage. Sighted AGL Rapid Induction dated 28 April 2022 which includes content on cultural awareness.
AH6	A Cultural Heritage Management Plan including potential monitoring and salvage works procedures would be prepared and implemented for the Project construction.	Construction	C	The Sections 4 and 5 of the ACHMP include procedures for project monitoring and salvage work for Aboriginal heritage items. See further comments in Commitment AH2.
AH7	A Chance Finds Procedure would be included in the Cultural Heritage Management Plan and be followed for any previously unidentified Aboriginal heritage objects found during the works. The Procedure would require that: • In the event that a previously unidentified Aboriginal heritage object is found, all activity in the immediate area must cease and an appropriately qualified heritage professional should be consulted. Heritage NSW and local Aboriginal stakeholder groups must be immediately contacted and informed of the Aboriginal heritage object found. The qualified heritage professional should record the location and the attributes of the site and determine its Aboriginal cultural significance; • If Aboriginal remains (human skeletal material or suspected human skeletal material) are discovered during construction all activities in the	Construction	C	Section 4.2 of the ACHMP includes unanticipated finds protocols for both Aboriginal objects / places and human skeletal remains.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	immediate area must cease. The State Police and NSW Heritage must be contacted and any sand or soil removed from the near vicinity identified and set aside for investigation purposes.			
Traffic				
TT1	An oversized vehicle permit would be sought for all oversized vehicle movements. Oversized vehicles would be escorted by an appropriately qualified subcontractor and would endeavour to travel outside of peak traffic periods.	Pre-construction	NT	JM and RH (pers comms) confirmed that no oversized vehicle permits have been sought as no oversized vehicles have been required for the project to the time of audit.
TT2	The haulage contractor to prepare and implement a traffic management plan for oversize vehicle movements, which would include: • Identification of the routes; • Measures to provide an escort for the loads; • Times of transporting to minimise impacts on the road network; • Communication of strategy and liaising with emergency services and police.	Construction	NT	JM and RH (pers comms) confirmed that no oversized vehicle permits have been sought as no oversized vehicles have been required for the project to the time of audit.
TT3	The CEMS and general site induction would inform construction and operational personnel of the risk of collisions, particularly with animals during rain or periods of low light.	Construction / operation	C	Section 8.9 of the EMS includes management measures for traffic impacts, including the risk of vehicle collisions. JM (pers comms) also confirmed that the site induction for construction and operational personnel informs of the risk of collisions and includes a 40 km site speed limit. Speed limit signage was observed to be in place during the audit site inspection (see **Plate 7**).

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
Noise and Vibration				
NV01	Each CEMP would identify project construction activities with the potential to have noise impacts and the controls required to avoid, minimise and mitigate these impacts. Each CEMP would adopt the following measures where reasonable and feasible: • Conduct construction activities during standard hours of construction, and noisy operational works during day time hours; • Schedule deliveries during standard hours of construction; • Ensure on-site and public speed limits are adhered to; • Plan traffic flow, parking and loading/unloading areas to minimise reversing movements within the site, such as by including drive-through for parking and deliveries; • Use mains power supply rather than use generators; • Switch off generators when not in use; • Wherever possible and practical, select low noise plant and equipment; • Operate and maintain plant and equipment in an efficient and proper manner; • Turn off plant and equipment when not in-use; • Consider the application of alternative, low-impact construction techniques; • Avoid dropping materials from a height; • Avoid dragging equipment and materials; • Dampen or line metal trays as necessary; • Ensure that road plates are installed as per specifications; • Delivery vehicles to be fitted with straps rather than chains for unloading, wherever possible.	Construction	C	Section 4.9 of the CEMP includes control measures for noise and vibration including: • Conduct construction activities during approved hours of construction, and noisy operational works during day time hours; • Schedule deliveries during approved hours of construction; • Adhere to on-site (40 km/hr) and public road speed limits.; • A project traffic management plan will be developed and include traffic flow, parking and loading/unloading areas to minimise reversing movements within the site, such as by including drive through for parking and deliveries; • A copy of the Monadelphous 'Traffic Control Plan AGL Slurry Pipeline – Rev 3' dated 22 September 2022 was sighted, which describes a traffic control plan strategy, traffic control devices, management of change, communication plan and figures which show vehicle access and turn around areas;

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				• Operate and maintain plant and equipment in accordance with manufacturers specifications, see Commitment GW06 above; • Turn off plant and equipment when not in-use. This includes generators, vehicles and other fixed and mobile equipment; • Avoid dropping materials from a height; • Avoid dragging equipment and materials; • Dampen or line metal trays as necessary; • Ensure that road plates are installed as per specifications; and • Fit delivery vehicles with straps for unloading, wherever possible. The site inspection confirmed that 40 km/hr speed limit signs are in place, see **Plate 7**. JM (pers comms) confirmed that construction works are only undertaken during the day.
Socio-Economic				
SE1	To manage the increase in construction traffic, including heavy and oversize vehicles, on the New England Highway:	Construction	**NC**	A copy of the Monadelphous **'Traffic Control Plan AGL Slurry Pipeline – Rev 3' dated 22 September 2022 was sighted;**

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	• Implementation of a traffic management plan for management of construction traffic, including oversized loads; • Consider the timing of key tourist activities and events in the planning of major haulage tasks; • Communication with key stakeholders and communities about potential changes in construction traffic and major haulage tasks.			**the plan does not consider the timing of key tourist activities and events in the planning of major haulage tasks.** **It is recommended that the traffic management plan is reviewed and updated to consider the timing of these activities.**
SE2	Identify opportunities to maximise the use of local suppliers and businesses in the provision of goods and services for construction.	Pre-construction	C	JM (pers comms) confirmed that AGL use local sub-contractors to perform project work including Delta, PWA welders and Maxi Bore.
Visual				
VI01	Visual impacts would be considered in the detailed design to minimise visual impacts where compatible with biodiversity and heritage management measures and Project requirements.	Design	C	The audit site inspection confirmed that the above ground pipeline blends in as far as possible with the surrounding landscape (see **Plate 11**).
VI02	A rehabilitation management plan would be developed and include prioritising screening vegetation in areas able to support larger vegetation around permanent, unnatural landforms.	Operation	NT	JM (pers comms) confirmed that a rehabilitation management plan is not relevant to the current stage of the project.
Non-Aboriginal Heritage				
NAH01	Should any historical archaeological remains be discovered during construction, all works would stop, the area cordoned off and a heritage professional engaged to examine and advise on the significance of the archaeological finds. If deemed to be of significance, under section 146 of the Heritage Act 1977 (NSW), a s146 form would be submitted to notify the Heritage Council of the	Construction	NT	Section 4.11 of the CEMP notes that if historical archaeological remains are discovered during construction, all works will cease, the area cordoned off and a heritage professional engaged to examine and advise on the

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	discovery of relics. Further investigation may be required, and appropriate management would be agreed through consultation with Heritage NSW.			significance of the archaeological finds. JM (pers comms) noted that no Non-Aboriginal historical archaeological remains have been discovered during the audit period.
NAH02	In the unlikely event that human remains are uncovered, all work must cease immediately in the vicinity of the remains and the area cordoned off. The local NSW Police must be notified, who would make an initial assessment as to whether the remains are part of a crime scene, or Aboriginal remains. If the remains are thought to be Aboriginal, Heritage NSW must be contacted as per AH7.	Construction	NT	Section 4.11 of the CEMP notes that if human remains are uncovered, all work must cease immediately in the vicinity of the remains and the area cordoned off. The local NSW Police must be notified, who will make an initial assessment as to whether the remains are part of a crime scene, or Aboriginal remains. If the remains are thought to be Aboriginal, Heritage NSW will be contacted. JM (pers comms) confirmed that no human remains have been uncovered during the audit period.
Waste				
WR01	The existing Waste Management Plan would be updated to include the Project and would be implemented prior to each stage. The plans would be developed with the following criteria: • A hierarchical waste management approach would be used, from the most preferable (reduce, reuse or recycle wastes) to the lease preferable (disposal) to prioritise waste management strategies to avoid waste generation;	Construction	C	Waste is required to be managed in accordance with the AGL Waste Management Plan, AGLM-HSE-PLN-009.07. • Section 4.5 of the Waste Management Plan notes that the HSE Management System (HSEMS) establishes the standards and procedures

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
	• The plans would promote the use of materials with minimal packaging requirements, removal of packaging offsite by suppliers and fabrication of parts offsite; • Where waste cannot be avoided, waste materials would be segregated by type for collection and removal (for processing or disposal) by licensed contractors; • All waste types would be separated at source for recycling and apply a system of colour-coded waste storage containers to ensure the segregation of waste is affected as far as possible; • A licensed service provider would be appointed to collect general solid waste and hazardous waste during construction and operation; • Each waste type would be classified for transport to ensure correct handling. Any waste that cannot be recovered or recycled would need to go to a licensed treatment or disposal facility where it would be treated and disposed of according to its classification			that apply to AGL Business Units to ensure HSE compliance requirements and obligations are integrated into business processes across the organisation. The HSEMS is hierarchical i.e. requirements at any level must meet and support the requirements at higher levels; • Section 2.5 of the Waste Management Plan notes that all employees / contractors are to consider opportunities for waste avoidance when purchasing resources from suppliers; • Section 2.5 of the Waste Management Plan describes the segregation and recycling of waste; • Section 4.3 of the Waste Management Plan notes that Where recycling options are not available, waste classified as General Solid Waste (putrescible or non-putrescible) is transported by a licensed contractor for disposal at a licensed solid waste landfill or, in the case of ash and brine concentrate, at approved emplacement areas under the POEO Act and AGL Macquarie's EPLs.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				• Section 2.1 of the Waste Management Plan describes Waste Classification. • RH (pers comms) that the construction contractors manage their own waste that is generated by the project. Waste invoice to Monadelphous sighted dated 21 March 2022, from supplier Remondis Australia Pty Ltd for scrap metal and general waste removal. RH (pers comms) confirmed sewage from temporary construction offices is pumped out by vac truck which is organised by Monadelphous. Invoice sighted for pump out and removal of sewage waste dated 9 August 2022.
WR02	Cleared vegetation would be either mulched for onsite reuse or used to created habitat piles, noting that any weeds and pathogens would be managed according to requirements under the NSW Biosecurity Act 2015.	Construction	C	Section 8.6 of the EMS notes that cleared vegetation to be mulched onsite for reuse or used to create habitat piles.
WR03	The Salt cake landfill would be designed, constructed and operated in accordance with EPA Environmental Guidelines: Solid Waste Landfills (EPA, 2016).	All	NT	JM (pers comms) confirmed that this condition is not relevant to the current stage of the project.
WR04	Ash recovery for off-site use would be undertaken in accordance with the coal ash order and exemption and approved sampling plans.	Operation	NT	JM (pers comms) confirmed that ash recovery for off site use is not relevant to the current stage of the project.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
WR05	The onsite disposal or reuse of materials generated through construction and operation would be undertaken in accordance with the EPL 779, POEO Act and applicable waste orders and exemptions as in force at the time.	All	NT	JM (pers comms) confirmed that the onsite disposal or reuse of materials generated through construction of the Ravensworth Ash Line will not be undertaken for the project. See comments against Commitment WR01 for a discussion on project compliance with waste management requirements.
Hazards				
HR1	Risks associated with the Project would be managed through a Management of Change process. AGL implements an Asset Change Management Standard, and any major change (defined as a change that has major implications to the strength, stability, operation and design of the asset and/or health and safety of employees) must undergo a detailed risk assessment using AGL's Risk Management and Assessment Framework to assess the risks that may be introduced by the proposed change. This would be undertaken for all Project components and appropriate controls implemented to reduce the risk to an acceptable level.	Prior to construction	**NC**	Section 8 of the EMS notes that '…Risks associated with the Project to be managed through a Management of Change process'. Section 4.1 of the CEMP documents a risk assessment completed for the Ravensworth Ash Line component of the project. A copy of the AGL Management of Change Standard was sighted, version 1.2, dated 27 April 2021, however **evidence that a Management of Change Process was completed for the project was not available at the time of audit. It is recommended that a Management of Change process is completed for the project, in accordance with the relevant AGL Standard.** It is noted that AGL scheduled the Management of Change

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
				process to occur for the project following the date of the audit site visit. This was documented in AGL SAP Task '120010115 CBAY049 BW Ash Slurry line and plant upg.'
HR2	Completion of all actions arising out of the management of change process.	Prior to construction / Construction / Post construction	**NC**	**See comments on Commitment HR1.**
HR3	Bushfire risks would be considered in the detailed design of each Project component and the bushfire management plan updated to address identified risks.	Prior to construction	C	Section 8.13 of the EMS describes hazard and bushfire management, including a hazard management strategy for the construction phase of the project. Section 8.13 also notes that Hazard management must comply with AGLM Bushfire Management Plan PSSI-HSE-40. Sighted a copy of the Monadelphous Bushfire Season Checklist document for the project, dated 22 November 2022. The Monadelphous checklist identifies project-specific bushfire controls. The internal AGL Bushfire Risk Management Plan (AGLM-HSE-PRO-010.01.00) dated 15 July 2021 also identifies the general area occupied by the Ravensworth Ash Line as a potential risk area and provides associated maintenance controls to minimise fire risk.

EIS Reference	EIS Environmental Management Measures	EIS Implementation Timing	Status	Evidence
HR4	Temporary construction compounds would be maintained in a tidy and orderly manner to minimise potential fuel loads in the event that any construction compounds are affected by fire.	Construction	C	The site inspection confirmed that the project site was maintained in a tidy and orderly manner (see **Plate 9** to **Plate 11**). Tagged portable fire equipment was sighted at the project construction offices time of the audit, see **Plate 5**.
HR5	Construction activities involving flammable materials and ignition sources (for example, welding) would be proactively managed to ensure that the potential for fire is effectively minimised. High risk construction activities, such as welding and metal work, would be subject to a risk assessment on total fire ban days and restricted or ceased as appropriate. Construction personnel would be inducted into the requirement to safely dispose of cigarette butts.	Construction	C	Sighted Bushfire Season Checklist dated 22 November 2022 which records inspection of hot work performed near property boundary and requires completed risk assessments completed and appropriate control (e.g. Wetting down areas, erection of barriers, fire watcher). The Bushfire Season Checklist also notes ongoing checks for any smoking near vegetation.
HR6	Storage and management of dangerous goods and hazardous materials would occur in a safe, secure location consistent with the requirements of applicable Australian Standards.	Construction and Operation	NT	JM (pers comms) confirmed no dangerous goods or hazardous materials are required for this stage of the project. No evidence of large volumes of dangerous goods or hazardous chemicals was observed during the audit site inspection.

APPENDIX D

STAKEHOLDER ENGAGEMENT CORRESPONDENCE

From:	Singleton, Council
To:	Dorian Walsh
Subject:	RE: Bayswater Power Station Project SSD 9697 Audit - Consultation
Date:	Wednesday, 14 December 2022 8:29:09 AM
Attachments:	image014.png image001.png image015.png image016.png image017.png image018.png image019.png

Hi Dorian,

Singleton Council is not aware of any specific environmental issues associated with this operation.

If you require input from Council during the audit process please let us know.

Kind Regards

SINGLETON COUNCIL

SINGLETON COUNCIL

T 02 6578 7290
E council@singleton.nsw.gov.au
W singleton.nsw.gov.au

Singleton Council acknowledges the Wanaruah, Wonnarua people and their custodianship of the land in the Singleton Local Government Area. We also acknowledge all other Aboriginal and Torres Strait Islanders who live within the Singleton Local Government Area and pay our respect to Elders past, present and future.

Dorian Walsh

Subject: FW: Bayswater Power Station Project SSD 9697 Audit - Consultation
Attachments: DA 1993-138 Pipe Location.PNG; DA 2018-12 Pipe Location.docx; Bayswater Upgrade (SSD 9697) Council Consents_Commitments Table.pdf

From: Theresa Folpp
Sent: Friday, December 16, 2022 3:44 PM
To: Dorian Walsh
Cc: Tegan Anne Brown
Subject: RE: Bayswater Power Station Project SSD 9697 Audit - Consultation

Hi Dorian,

Thank you for the opportunity to provide input to the IEA of SSD-9697 for the Bayswater Power Station Project.

Council Officers are particularly interested in commitments from Council consents that have been consolidated as part of the SSD, and how they are being addressed.

From our understanding, the "initial 12-week construction phase" includes the construction of the Ravensworth Ash Line. A meeting was held with AGL on 31/03/22 to discuss preparation of a Construction Environment Management Plan (CEMP) for the Ash Line, in accordance with Cond C1.

Could you please address the following in the IEA:

Ref	Detail	Request	Response
	DA 1993 -138 Return Water Pipeline to Ravensworth Void		
1	The ash line constructed under DA 1993-138 was proposed to be replaced as part of SSD 9697. The location of the pipe is shown in the attached.	Please confirm that this has occurred.	
2	Cond 7 of DA 1993-138 states the following: *The applicant shall ensure that the quality of the water within Lake Liddell is not deteriorated detrimentally as a result of any waters being returned from this development to the Lake.*	Please confirm how this condition is being addressed.	
3	Cond 12 of DA 1993-138 states the following: *The two Aboriginal sites and the artefact identified by the SEE is to be isolated and roped off to avoid any disturbance during construction. Employees conducting the proposed works must be informed of the existence and location of the heritage items which are not to be disturbed without the necessary approvals.* Unfortunately, the location of the two Aboriginal sites are not shown in the Macquarie Generation '*Fly Ash Disposal Upgrade Baywater Power Station SEE*'. Section 3.4.1 of the SEE states "during the original archaeological survey for the ash slurry and return water pipelines two Aboriginal sites and an isolated artefact were located".	Please confirm these two sites are included in any Aboriginal Cultural Heritage Management Plan.	

	Council records for the 1993 approval were not available to be reviewed for this audit as they are located off-site. Records will be recalled if sufficient detail of the Aboriginal sites are not included in the Aboriginal Cultural Heritage Management Plan.		
	DA 2018-12 Baywater Ash dam Overland Water Pipeline		
4	Note - The location of the Baywater Ash dam Overland Water Pipeline is incorrectly shown in Appendix 2 of SSD 9697. See attached for approved location.	-	
5	AGL have not yet commenced construction of this pipeline. A Construction Certificate has been issued. Council Officers are awaiting the return of the completed Performance of Certification Work agreement prior to works commencing.	Please recommend that 'Performance of Certification Work' form is completed and returned to Council prior to commencement of works and that all relevant conditions from DA 2018-12 are implemented during construction.	
6	-	Please ensure management commitments from DA 2018-12 are included in relevant management plans (see attached).	
	Other		
7	-	Please provide a status update of each management plan.	
8	Cond D10 requires the Applicant to make each Compliance Report publicly available within 60 days of submitting it to the Planning Secretary, unless otherwise agreed by the Planning Secretary.	Please provide a summary of how AGL intends to report under Cond D10 i.e will the report be available on the public website. If available, please also confirm the date of submission for the first Compliance Report.	

Note that Council Officers will follow up with AGL regarding surrender of other Council consents (i.e DA 2017-12 and DA 2017-89) prior to surrender in Aug 2023.

If you require any additional information, please don't hesitate to contact me.

Regards,
Theresa

Muswellbrook Shire Council | Theresa Folpp | Development Compliance Officer | Administration Building
T: (02) 6549 3700 **| E:** Theresa.Folpp@muswellbrook.nsw.gov.au **| W:** www.muswellbrook.nsw.gov.au

Please consider the environment before printing this email

APPENDIX E

IEA SITE VISIT AGENDA

AGL Macquarie
Department of Planning & Environment
Independent Environmental Audit

Agenda for Site Visit to be held
Wednesday 30 November 2022
Bayswater Power Station Upgrade Project (SSD 9697)

INVITEES:

James McNamara (JM)	AGL	Senior Environment Advisor
Rodney Harrison (RH)	AGL	Senior Project Specialist
Keith Simkin (KS)	AGL	Contractor Environmental Operations
Dorian Walsh (DW)	James Bailey & Associates	Auditor
Tegan Brown (TB)	James Bailey & Associates	Auditor

Table 1
Audit Agenda Items

Time	Description	Location	Attendees
8:00 – 8:30am	**Opening Meeting** • Inductions / housekeeping (JM) • IEA scope and purpose (DW) • Confidentiality arrangements (DW) • IEA process and timing (DW) • Brief overview of site during construction period (JM, KS)	Meeting Room	JM, KS DW, TB
8:30am – 12:00pm	**Compliance Review** • SSD 9697 conditions and statement of commitments • EA, management plan commitments • Site Procedures • Review of any remaining compliance documents	Meeting Room	JM, KS, DW, TB
12:00 – 12:30pm	**Lunch**		
12:30 - 1:30pm	**Site Inspection** • Review of environmental controls: o Air and water management	Field	JM, RH, KS DW, TB

Time	Description	Location	Attendees
	○ Erosion and sediment controls ○ Heritage and biodiversity management ○ Laydown areas and storages.		
1:30 – 2:30	**Compliance Review (continued)** • EPL 779 conditions	Meeting Room	JM, KS, DW, TB
2:30 – 3:00 (TBC)	**Close Out Meeting** • Overview of preliminary findings • Outstanding information requirements • Confirmation of process for audit completion	Meeting Room	JM, KS, DW, TB

APPENDIX F

SITE INSPECTION PLATES

Plate 1 Bunded chemical storage area

Plate 2 Fire suppression trailer

Plate 3 Signage and flags used to identify cultural heritage site and prevent access

Plate 4 'No-Go' Signage in place to identify Cultural heritage and prevent access

Plate 5 Fire fighting equipment available at the project construction offices and in good condition

Plate 6 Waste skip bins available and serviced by waste contractor

Plate 7 Speed limit signs on project access track

Plate 8 Water cart available on site for dust suppression

Plate 9 Sediment fences used around stockpiles

Plate 10 'No-go' signage for protected vegetation

Plate 11 Above ground pipeline section

Plate 12 Approved stockpile area signage and flagged project disturbance boundary