

Aurizon Hexham Train Support Facility

5 February 2025

# Independent Environmental Audit Report





# Document Information

## Independent Environmental Audit Report, Aurizon Hexham Train Support Facility

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# List of Acronyms

Acronym	Definition
<b>ABN</b>	Australian Business Number
<b>AS</b>	Australian Standard
<b>AEP</b>	Annual Exceedance Probability
<b>CAHMP</b>	Construction Aboriginal Heritage Management Plan
<b>CAQMP</b>	Construction Air Quality Management Plan
<b>CCS</b>	Community Communication Strategy
<b>CCMP</b>	Construction Contamination Management Plan
<b>CEMP</b>	Construction Environmental Management Plan
<b>CFFMP</b>	Construction Flora and Fauna Management Plan
<b>CMF</b>	Combined Maintenance Facility
<b>CNIHMP</b>	Construction Non-Indigenous Heritage Management Plan
<b>CNVMP</b>	Construction Noise and Vibration Management Plan
<b>CMS</b>	Consultation Management System
<b>CTMP</b>	Construction Traffic Management Plan
<b>CWSMP</b>	Construction Waste and Spoil Management Plan
<b>EA</b>	Environmental Assessment
<b>EMS</b>	Environmental Management System
<b>EPA</b>	Environmental Protection Authority
<b>EPL</b>	Environment Protection Licence
<b>ERA</b>	Environmental Risk Assessment
<b>FEMP</b>	Flood Emergency Management Plan
<b>FFMP</b>	Flora and Fauna Management Plan
<b>GW</b>	Groundwater

Acronym	Definition
<b>IEA</b>	Independent Environmental Audit
<b>MP</b>	Management Plan
<b>MS</b>	Microsoft
<b>NC</b>	Non-compliance
<b>NSW</b>	New South Wales
<b>OEMP</b>	Operational Environmental Management Plan
<b>OFI</b>	Opportunity for Improvement
<b>PASS</b>	Potential Acid Sulfate Soil
<b>PEP</b>	Project Engagement Plan
<b>RFI</b>	Request for Information
<b>SDS</b>	Safety Data Sheets
<b>SERP</b>	Site Emergency Response
<b>SGMP</b>	Surface and Groundwater Monitoring Plan
<b>SLR</b>	SLR Consulting Australia Pty Ltd
<b>SMP</b>	Site Management Plan
<b>SoC</b>	Statement of Commitments
<b>SSI</b>	State Significant Infrastructure
<b>SWMP</b>	Stormwater Management Plan
<b>TSF</b>	Train Support Facility
<b>WMP</b>	Waste Management Plan
<b>WWTP</b>	Wastewater Treatment Plant



# 1.0 Introduction

## 1.1 Background

The Aurizon Hexham Train Support Facility ('the Site') is located off Tarro Interchange at Anderson Drive, parallel to Industrial Drive, Hexham, New South Wales (NSW), 2322. Development of the Site was assessed as State Significant Infrastructure (SSI) and approved by a delegate for the NSW Minister for Planning and Infrastructure under MP07\_0171 (now referred to as SSI-6090) on the 10 October 2013. The Site was considered fully operational as of October 2015.

Subsequent developments at the Site have included:

- Modification 1: Construction of a turning angle ('the Turning Angle'), under *Modification SSI-6090 MOD 1*, approved on the 09 October 2019, and completed in July 2020.
- Modification 2: Depot Modification, under *Modification SSI-6090 MOD 2*, approved in September 2022, and completed in August 2023.

The approval SSI-6090, incorporating the approved modifications, is referred to herein as the 'Consolidated Approval'.

In accordance with Condition D5 of the Consolidated Approval, Aurizon is required to implement a Compliance Tracking Program (CTP). To satisfy Condition D5 of the CTP, Aurizon has committed to undertaking an Independent Environmental Audit (IEA) every 3 years of the Site operations as detailed in its Department of Planning and Environment (DPE) approved Environmental Management Plan, Section 4.2.

As such, this report presents the scope, methodology and findings of the IEA covering the three-year period from 3 November 2021 to 18 November 2024. The IEA has been undertaken in general accordance with the NSW Department of Planning, Industry and Environment (DPIE) Independent Audit Post Approval Requirements (PARs) (May 2020).

## 1.2 Site overview

The Site is located off Tarro Interchange at Anderson Drive, parallel to Industrial Drive, Hexham, New South Wales (NSW), 2322. The Site has a total area of 255 ha. It is bound by the Main Northern Railway to the east and the New England Highway to the north. To the south and west the site is bound by rural properties and the Hexham Swamp Nature Reserve (part of the Hunter Wetlands National Park).

The Hexham TSF has been developed on a 38-ha portion of the Site (refer to **Figure 1.1**). The Hexham TSF includes a provisioning facility, combined maintenance facility (CMF), depot and rail track to support the operation of these facilities. Most of the Site remains vacant and unused, and a portion is used by a third party, Brancourts Manufacturing and Processing Pty Ltd (dairy processing), for effluent irrigation under Environment Protection Licence EPL 816. The southern portion of the site contains relics of previous coal and rail industry use, with an abandoned rail loop and underlying coal washery reject.

The Hexham TSF provides routine and ad hoc provisioning and maintenance services to outbound locomotives and wagons. Key elements of the Hexham TSF include:

- Seven train tracks (10.5 kilometres) parallel to the existing mainline, turning angle and a shunt track.
- Provisioning shed with adjacent bulk fuel (diesel), oil and sand storage and 'trade waste system' (2x 10kL tanks for collection of spills).
- Track-side yard area refuelling and provisioning location for rear locomotive.





- CMF with workshop and wash bay, administration building, and Dissolved Air Floatation (DAF) plant to treat wastewater collected from the workshop and wash bay.
- Depot with offices and staff amenities and warehouse for storage of rail maintenance equipment.
- On-site Wastewater Treatment Plant (WWTP) for sanitary waste, with treated effluent discharged to a dedicated irrigation area in the southern portion of the Site.
- Surface water management infrastructure including retention basins.



**Figure 1.1: Hexham TFS site overview (reproduced from Aurizon MP07\_0171 MOD 2 Construction Compliance Report 1).**

### 1.3 Audit team and participants

The IEA has been undertaken by the Audit Team listed below:

- **Lead Auditor: Suanna Harvey**, Senior Principal Environmental Scientist, EPA Victoria-appointed Environmental Auditor – Industrial Facilities.
- **Auditor Assistant: Emma Guy**, Associate Environmental Scientist, Accredited Auditor for ISO14001:2015 Environmental Management Systems (EMS).
- **Auditor Assistant: Victoria Lampe**, Project Environmental Consultant, Accredited Lead Auditor for ISO14001:2015 EMS, ISO45001:2018 OH&S Management Systems and ISO9001:2015 Quality Management Systems.



The audit team was endorsed by DPHI on 4 September 2024 as per the approval letter attached in **Appendix A**.

Aurizon representatives that participated in the audit included:

- Harry Egan, Principal Adviser Environment.
- David Price, Regional Maintenance Superintendent.
- Craig Tuffley, Regional Maintenance Manager.
- Martin Hedges, Regional Facilities Maintenance Lead.

## 1.4 Audit objectives

The objectives of the IEA are to:

- Assess compliance with the relevant conditions in the Consolidated Approval and the post-approval documentation;
- Assess the environmental performance of the Modification 2 development and operations at the Site;
- Review the effectiveness of environmental management measures outlined in documents required under the Consolidated Approval;
- Review the adequacy of the environmental management documents required under the Consolidated Approval;
- Recommend measures or actions to improve the environmental performance of operations at the Site; and
- Recommend improvements to the post-approval documentation required under the Consolidated Approval.

## 1.5 Audit scope

The scope of the IEA included:

- Assessment of compliance with the relevant conditions in the Consolidated Approval,
- Review of the environmental performance of the development through assessment of relevant operational commitments from:
  - Environmental Assessment, NSW Train Support Facility, Maitland Road, Hexham (ADW Johnson Pty Ltd, 2012);
  - Preferred Project Report and Response to Submissions, NSW Train Support Facility, Maitland Road, Hexham (JBA, 2013); and
  - SSI-6090 Modification 1 - Environmental Assessment Report Revised (Ethos Urban, June 2019).
- Assessment of construction and operational commitments from Section 5.25 Modification to SSI-6090 (formerly MP07\_171), Hexham Long Term Train Support Facility- Ancillary Depot and Wagon Storage (Ethos Urban, 2022).
- Assessment of operational performance against the predictions and conclusions in Section 5.25 Modification to SSI-6090 (formerly MP07\_0171) Hexham LTTTSF – Ancillary Depot and Wagon Storage (Ethos Urban, 2022).
- Review of the effectiveness of environmental management against management measures outlined in Aurizon's approved 'Hexham TSF Environmental Management Plan' (OEMP) and sub-plans.

## 1.6 Audit period

This IEA covers the period from 3 November 2021 to 18 November 2024.





## 2.0 Audit Methodology

### 2.1 Selection and endorsement of audit team

Declarations of Independence and evidence of competency for each member of the audit team were submitted to the NSW Department of Planning, Housing and Infrastructure (DPHI) on 26 August 2024 and approved on 4 September 2024.

Copies of the Independent Audit Declaration Letters and DPHI approval are included in **Appendix A**.

### 2.2 Independent audit scope development

The scope of the IEA was developed to address the requirements of the DPE Independent Audit Post Approval Requirements (May 2020). This included:

- Consultation with DPHI and other relevant government agencies as nominated by Aurizon, to obtain their input into the audit scope.
- Review of the Consolidated Approval to determine the conditions of the consent applicable to the phase of the development being audited.
- Review of the Statements of Commitments (SoC) made during the approval processes to determine the commitments applicable to the phase of the development being audited.
- Review of the recommendations and areas for improvement recorded in the 2021 Independent Environmental Audit report (SLR, 2022).

The applicability of the conditions of the consent and commitments is documented in the Audit Tables attached in **Appendix B**. Those considered not applicable to this IEA are recorded as 'Not triggered' in accordance with the compliance status descriptors in **Table 2.2**.

### 2.3 Compliance evaluation

The IEA has included an assessment of:

- Compliance with the conditions of consent applicable to the phase of the development that is being audited;
- Compliance with post approval and compliance documents prepared to satisfy the conditions of consent, including an assessment of the implementation of Environmental Management Plans and sub-plans;
- Environmental performance of the development, including:
  - Actual impacts compared to predicted impacts documented in the environmental impact assessment;
  - The physical extent of the development in comparison with the approved boundary;
  - Incidents, non-compliances and complaints that occurred or were made during the audit period;
  - The performance of the development having regard to agency policy and any particular environmental issues identified through consultation carried out when developing the scope of the audit; and
  - Feedback received from the Department, and other agencies and stakeholders on the environmental performance of the project during the audit period;
- The status of implementation of recommendations and areas for improvement recorded in the 2021 Independent Environmental Audit report (SLR, 2022);



- The adequacy of Environmental Management Plans and Sub-plans prepared for the development;
- Other matters considered relevant by the Auditor or the Department, taking into account relevant regulatory requirements and legislation, knowledge of the development’s past performance and comparison to industry best practices.

Compliance has been evaluated based on the Audit Teams review of evidence provided during the audit, which has included:

- Relevant records, documents, reports and data provided by Aurizon;
- Interviews with relevant site personnel; and
- Site inspections of relevant locations, activities and processes.

The IEA has sampled data and documentation from the audit period up to and including 18 November 2024 in completing this audit. Additional information was reviewed by the IEA up to and including 13 December 2024 for the purpose of providing evidence to clarify discussions during the audit.

Details of the evidence used to evaluate compliance against each applicable condition is documented in the Audit Table in **Appendix B**, along with relevant observations and notes.

## 2.4 Audit activities

### 2.4.1 Document review

Documented information was provided by Aurizon prior to, during and following the audit. Further information was sourced by the Audit Team from the Aurizon website<sup>1</sup>.

Documentation reviewed during this audit, and that has informed the evaluation of compliance, is recorded in the ‘Evidence’ column in the Audit Tables attached in **Appendix B**.

### 2.4.2 Site-based audit activities

The activities undertaken as part of the site-based component of the audit are summarised in **Table 2.1**.

**Table 2.1: Summary of 2024 audit site-based activities**

Task	Date and Time	Description	Attendees
<b>Audit Planning Meeting</b>	21 October 2024 3.00pm	Audit planning meeting held via MS Teams	<ul style="list-style-type: none"><li>• Suanna Harvey</li><li>• Emma Guy</li><li>• Victoria Lampe</li><li>• Harry Egan</li></ul>
<b>Audit Opening Meeting</b>	18 November 2024, 8:30am	IEA opening meeting, conducted by the Lead Auditor Suanna Harvey. Attendees included:	<ul style="list-style-type: none"><li>• Suanna Harvey</li><li>• Emma Guy</li><li>• Harry Egan</li><li>• David Price</li><li>• Craig Tuffley</li></ul>

<sup>1</sup> <https://www.aurizon.com.au/sustainability/environmental-management/hexham-train-support-facility-depot-relocation>, accessed 8 November 2024.



Task	Date and Time	Description	Attendees
<b>Site Inspection and Interviews</b>	18 November 2024, 8:45am to 1:00pm and 2:00pm to 2:30pm.	<p>Inspection of the following operational areas:</p> <ul style="list-style-type: none"> <li>• Depot, warehouse and WWTP</li> <li>• Provisioning Facility including bulk fuel, oil and sand,</li> <li>• CMF and DAF Plant</li> <li>• Turning Angle</li> <li>• Stormwater retention basins and discharge points</li> <li>• Effluent irrigation area</li> <li>• Yard and laydown areas</li> </ul> <p>The site inspection was undertaken by Suanna Harvey and Emma Guy, accompanied by Harry Egan and David Price.</p> <p>Interviews with Aurizon personnel (Martin Hedges) were undertaken during the site inspection.</p>	<ul style="list-style-type: none"> <li>• Suanna Harvey</li> <li>• Emma Guy</li> <li>• Harry Egan</li> <li>• David Price (morning session)</li> <li>• Martin Hedges (part of)</li> </ul>
<b>Desktop Review</b>	18 November 2024, 1:30pm to 2:00pm and 2:30pm to 4:15pm	Follow up questions and documents arising from the site inspection and IEA team audit checklist.	<ul style="list-style-type: none"> <li>• Suanna Harvey</li> <li>• Emma Guy</li> <li>• Harry Egan</li> <li>• Craig Tuffley (part of)</li> </ul>
<b>Audit Closing Meeting</b>	18 November 2024, 4:15pm to 4:35pm	IEA closing meeting, conducted by the Lead Auditor Suanna Harvey. Discussion of preliminary findings.	<ul style="list-style-type: none"> <li>• Suanna Harvey</li> <li>• Emma Guy</li> <li>• Harry Egan</li> <li>• Craig Tuffley</li> </ul>

### 2.4.3 Post-audit activities

Following the site-based component of the audit, a request for information (RFI) was issued to follow up additional evidence and queries that were identified during the site inspection, interviews and desktop review.

Additional interviews were undertaken via video conference with personnel that were not available on-site at the time of the audit or where queries discussed on-site required further follow-up. Additional interviews were undertaken on Tuesday 10 December 2024 with the following personnel:

- Martin Hedges, Regional Facilities Maintenance Lead.
- Jonathan Shaw, Director, Hydrocon Services (Aurizon contractor).

## 2.5 Consultation

Consultation was undertaken with DPHI and Newcastle City Council (NCC) as part of the audit process. Consultation included a formal request for feedback or areas of interest to the stakeholder that should be considered during the IEA, submitted on 29 October 2024. Copies of the requests are attached in **Appendix C**.



## 2.6 Compliance status descriptors

The compliance status of each compliance requirement in the Audit Table has been determined using the relevant descriptors as listed in **Table 2.2**.

**Table 2.2: Compliance status descriptors**

Compliance Status	Description
<b>Compliant</b>	The auditor has collected sufficient verifiable evidence to demonstrate that all elements of the requirement have been complied with within the scope of the audit.
<b>Non-compliant</b>	The auditor has determined that one or more specific elements of the conditions or requirements have not been complied with within the scope of the audit.
<b>Not triggered</b>	A requirement has an activation or timing trigger that has not been met during the temporal scope of the audit being undertaken (may be a retrospective or future requirement), therefore an assessment of compliance is not relevant.



## 3.0 Audit Findings

### 3.1 Approval and key document list

Compliance with relevant aspects of the approvals and documents listed in **Table 3.1** has been assessed as part of this audit. Note that as construction of the Modification 2 works was complete at the time of this audit, the assessment of compliance against construction commitments was limited to documentation review, including Aurizon self-reported construction compliance assessments.

**Table 3.1: List of approvals and documents assessed**

Document Title	Document Revision and Date
Infrastructure Approval, Section 115ZB of the <i>Environmental Planning and Assessment Act 1979</i> , Application No: MP07_0171 (the Consolidated Approval)	SSI 6090 MOD 2, determined September 2022
Environmental Assessment, NSW Train Support Facility, Maitland Road, Hexham (ADW Johnson Pty Ltd, 2012)	-
Preferred Project Report and Response to Submissions, NSW Train Support Facility, Maitland Road, Hexham (JBA, 2013).	-
SSI-6090 Modification 1 - Environmental Assessment Report Revised (Ethos Urban, 2019).	-
Section 5.25 Modification to SSI-6090 (formerly MP07_0171) Hexham LTTTSF – Ancillary Depot and Wagon Storage (Ethos Urban, 2022)	-
Hexham TSF Environmental Management Plan (OEMP)	Revision 12, 8 August 2024
Hexham TSF Fauna and Flora Management Plan (FFMP)	Revision 8, 8 August 2024
Hexham TSF Flood Emergency Management Plan (FEMP)	Revision 11, 8 August 2024
Hexham Train Support Facility: Site Management Plan (SMP)	Revision 4, 12 August 2024
Hexham TSF Stormwater Management Plan (SWMP)	Revision 12, 9 August 2024
Hexham TSF Surface and Groundwater Monitoring Plan (SGMP)	Revision 12, 9 August 2024
Hexham TSF Waste Management Plan (WMP)	Revision 8, 9 August 2024
Construction Environmental Management Plan, NSW Long Term Train Support Facility Depot Relocation (Hexham) (CEMP)	Revision 1, 10 August 2022
Construction Aboriginal Heritage Management Plan, NSW Long Term Train Support Facility Depot Relocation (Hexham) Execution Phase (CAHMP)	Revision 1, 10 August 2022
Construction Non-Indigenous Heritage Management Plan, NSW Long Term Train Support Facility Depot Relocation Project (CNIHMP)	Revision 1, 5 September 2022
Construction Air Quality Management Plan, NSW Long Term Train Support Facility (Hexham) Depot Relocation Execution Phase (CAQMP)	Revision 1, 10 August 2022
Construction Contamination Management Plan, NSW Long Term Train Support Facility Turning Angle (Hexham) Execution Phase (CCMP)	Revision 1, 10 August 2022





Document Title	Document Revision and Date
Community Communication Strategy, Project Engagement Plan (PEP), NSW Long Term Train Support Facility Depot Relocation (Hexham) Execution Phase (CCS)	Revision 1, 10 August 2022
Construction Noise and Vibration Management Plan, NSW Long Term Train Support Facility (Hexham) Depot Relocation Project (CNVMP)	Revision 1, 10 August 2022
Long Term Train Support Facility Depot Modification Project, Hexham Construction Traffic Management Plan (CTMP)	Revision 1, 6 September 2022
Construction Flora and Fauna Management Plan, NSW Long Term Train Support Facility Depot Relocation (CFFMP)	Revision 1, 9 September 2022
Construction Waste and Spoil Management Plan, NSW Long Term Train Support Facility (Hexham) Depot Modification (CWSMP)	Revision 1, 9 September 2022
Hexham Train Support Facility Depot Relocation Soil and Water Management Plan (Soil and Water MP)	Revision 1, 12 September 2022

### 3.2 Summary of agency notices, orders, penalty notices or prosecutions

Based on site interviews and documentation provided during the audit process, no agency notices, orders, penalty notices or prosecutions were received during the audit period.

### 3.3 Previous audit recommendations

A review of the status of the previous IEA non-compliance and improvement recommendations (SLR, 2022) was undertaken. A description of the status of previous audit findings is provided in **Appendix B, Table B5**.

The previous IEA non-compliance and improvement recommendations have been fully addressed.

Two new opportunities for improvement have been raised related to the previous audit recommendations (**OFI 9** and **OFI 10**), refer to **Section 3.13**.

### 3.4 Previous annual review or compliance report recommendations

Aurizon undertakes compliance auditing and reporting in accordance with Condition D5 of the Consolidated Approval:

Non-compliances identified in the compliance reports prepared by Aurizon relate to two issues:

- Aurizon did not undertake a Pre-Construction Compliance Report in accordance with the Compliance Reporting Post Approval Requirements (Department of Planning, 2018). Aurizon has subsequently adopted and complied with the correct guidelines. Refer to **Appendix B, Table B1**, Conditions D5 to D5d for further discussion.
- Incomplete monitoring of water quality parameters, due to field equipment issues such as incorrect equipment supplied and water quality meter failure. Aurizon engaged with the third-party consultant responsible for surface water and groundwater monitoring to resolve the issue. Refer to **Appendix B, Table B1**, Condition C19 for further discussion.



### 3.5 Adequacy of Environmental Management Plans

Assessment of the adequacy of the OEMP, CEMP and sub-plans was undertaken against the requirements of the conditions of the Consolidated Approval (refer to, **Appendix B, Table B1**).

Construction of the Depot was complete at the time of the site inspection; however, based on the construction compliance reports provided, the CEMP and sub-plans appear to have been adequately implemented during the Depot relocation project, with no complaints or environmental incidents recorded in relation to construction activities.

A review of the adequacy of the OEMP and sub-plans was undertaken based on the information provided and the site inspection. Relevant environmental aspects identified in the Consolidated Approval and the environmental risk assessment (ERA) (OEMP Appendix A) for the site are addressed in the OEMP or the supporting sub-plans. The management, monitoring and reporting requirements described in the OEMP and supporting sub-plans are clearly documented and are generally considered adequate based on the site operations observed.

The review findings and opportunities for improvement are reported in **Table 3.2** by exception only, therefore, the OEMP and sub-plans should be assumed to be adequate if not reported otherwise.

**Table 3.2: Adequacy of the OEMP and Sub-plans**

Management Plan	Findings and observations
<b>Hexham TSF Environmental Management Plan (OEMP)</b> Revision 12, dated 8 August 2024	<p>The management measures and monitoring requirements for dangerous goods, as described in the OEMP Section 3.7, are high level only. OEMP Section 3.7.2 includes reference to chlorine; however, it was confirmed during the site inspection that, none is stored or used on-site (the material used is liquid sodium hypochlorite, or solid chlorine tablets of the type used in swimming pools) and that this is an error in the OEMP. <b>This is considered to be an opportunity for improvement (OFI 11, refer to Table 3.8).</b></p> <p>Monthly inspections listed in Table 16 as a requirement of the OEMP were found to be undertaken on an informal basis, i.e. no formal 'Site Inspection Checklist' was used and no records were maintained. There was also no formal method of recording improvement opportunities identified as a result of inspections. <b>This is considered to be a non-compliance (NC 9, refer to Table 3.7).</b> Refer also to assessment of SoC for Water in <b>Appendix B Table B4</b>.</p>
<b>Hexham Train Support Facility: Site Management Plan (SMP)</b> Revision 4, dated 12 August 2024	<p>SMP Section 3.2 Surface Disturbance Protocol refers to the Aurizon 14-FRM-006-WHS Permit to Work. During the site inspection and interviews, it was confirmed that the permit is not widely used and that the site has adopted an alternative form - the Hexham Depot Permit to Work. A copy of the Hexham Depot Permit to Work was provided for review. A copy of the 14-FRM-009- Fac Permit to Dig was also provided. The SMP should be updated to reflect the actual permit process to be used prior to breaking ground. <b>This is considered to be an opportunity for improvement (OFI 12, refer to Table 3.8).</b></p>
<b>Hexham TSF Stormwater Management Plan (SWMP)</b> Revision 12, dated 9 August 2024	<p>SWMP Section 4.2 includes a requirement for waterway and drainage inspections per a Stormwater Maintenance Checklist. Additionally Table 11 of the SWMP includes details of items for inspection along with frequency. Similar to the finding for the OEMP, no formal inspections using a checklist had occurred, and no records were maintained. There was also no formal method of recording improvement opportunities identified as a result of inspections <b>This is considered to be a non-compliance (NC 9, refer to Table 3.7).</b> Refer also to assessment of SoC for Water in <b>Appendix B Table B4</b>.</p> <p>SWMP Section 3.2 and Section 4.2 refer to the Aurizon 14-FRM-006-WHS Permit to Work. During the site inspection and interviews, it was confirmed that the permit is not widely used and that the site has adopted an alternative form - the Hexham Depot Permit to Work. A copy of the Hexham Depot Permit to Work was provided for review. The SWMP should be updated to reflect the actual permit process, which should include how the sediment and erosion control measures previously documented in 14-FRM-006-WHS Permit to Work are currently documented. <b>This is considered to be an opportunity for improvement (OFI 13, refer to Table 3.8).</b></p> <p>SWMP Section 3.3.4 refers to the installation of catch drains/bunds upslope and downslope of the irrigation area to prevent rainfall run-on and runoff. During the site inspection, it was noted there was no clearly observable catch drain or bund down-slope of the irrigation area in the event that excess irrigation water was to run-off. Aurizon was unable to provide as built drawings to confirm the contours and design intent met commitment. Site representatives noted that the volume of effluent sent for irrigation is 60-70% less than in the original TSF environmental assessment assumptions, such that the likelihood of run-off is low and irrigation water generally infiltrates the ground. <b>This is considered to be an opportunity for improvement (OFI 7 refer to Table 3.8).</b> Refer also to assessment of SoC for Effluent Disposal in <b>Appendix B Table B2</b>.</p>



## Management Plan Findings and observations

<b>Hexham TSF Surface and Groundwater Monitoring Plan (SGMP)</b> Revision 12, dated 9 August 2024	<p>The SGMP section 3.2 states that 'in the event that chronic exceedances of the listed performance criteria are recorded an investigation into the cause, potential impacts and feasible mitigation options will be triggered.' There is no definition provided for what may be considered a 'chronic exceedance'. There is also no trigger to review increasing trends in contaminant concentrations, before exceedances occur. <b>This is considered to be an opportunity for improvement (OFI 8, refer to Table 3.8).</b> Refer also to assessment of SoC for Soil Salinity in <b>Appendix B</b> Table B3.</p> <p>Annual surface water and groundwater monitoring reports for 2021, 2022 and 2023 state that the analytical limits of reporting are higher than the performance criteria for anthracene, benzo(a) pyrene and phenanthrene, and therefore no conclusion can be drawn regarding these contaminants. The SGMP should specify that trace analysis is required for these analytes, in order to resolve this data gap. <b>This is considered to be an opportunity for improvement (OFI 14, refer to Table 3.8).</b></p> <p>The scope of groundwater and surface water monitoring in the SGMP is extensive and complex. The TSF has been in operation for a number of years, and there may be an opportunity to undertake an in-depth review and potentially consolidate the monitoring (in consultation with DPHI) to focus on a) contemporary understanding of risks associated with operations and b) risks associated with historical contamination underlying the site. <b>This is considered to be an opportunity for improvement (OFI 15, refer to Table 3.8).</b></p> <p>Refer to non-compliance <b>NC 1</b> in Table 3.7 in relation to condition of approval C19 for missed water quality monitoring field parameters.</p>
<b>Hexham TSF Waste Management Plan (WMP)</b> Revision 8, dated 9 August 2024	<p>The WMP is generally considered to be adequate, addressing the various waste types generated at the site, as well as storage, classification and disposal requirements. However, during the site inspection, dedicated oily rag bins were not observed in the Provisioning Facility and CMF, and it was unclear if these were appropriately segregated from general waste in accordance with the WMP. Site representatives noted that few waste oily rags were generated. Given the process in place is different to the WMP, <b>this is considered to be an opportunity for improvement, (OFI 4, refer to Table 3.8).</b> Refer also to assessment of Condition C25 in <b>Appendix B, Table B1).</b></p>

## 3.6 Consultation outcomes

A summary of the consultation feedback is provided in **Table 3.3**.

**Table 3.3: Summary of consultation outcomes**

Stakeholder	Contact	Response
DPHI	<ul style="list-style-type: none"> <li>Heidi Watters, Team Leader Compliance</li> <li>Joel Fleming, Senior Compliance Officer</li> </ul>	<p>Email received 29 October 2024 requesting the IEA to ensure that the implementation of the Surface and Groundwater Monitoring Plan (SGMP) is thoroughly checked, with particular attention to implementation of surface and groundwater monitoring methodology, noting previous issues in this area.</p> <p>Refer to the assessment of compliance with surface and groundwater monitoring requirements against Conditions C19 in <b>Appendix B, Table B1</b>.</p>
NCC	<ul style="list-style-type: none"> <li>Robert Manev, Senior Environment Protection Officer</li> </ul>	<p>An initial email request for feedback was sent on 29 October 2024, and a follow up request was sent to NCC on 10 December 2024; however, no response had been received at the time of reporting.</p>

During consultation, the Auditor requested clarification from DPHI regarding Condition B4A of the Approval, which specified that certain conditions did not apply to Modification 1 (Turning Angle) works, to confirm that Condition B4A also applies to Modification 2 (Depot Modification) works. DPHI confirmed that Condition B4A of the Approval also applies to Modification 2 (Depot Modification) works.



## 3.7 Complaints

Complaints received in relation to the Site are logged in Aurizon's Consultation Manager System (CMS) system for investigation and close out, in accordance with the Hexham TSF Environmental Management Plan section 6.1. Complaints are reported in Compliance Reporting prepared by Aurizon in relation to the Site.

Based on documentation sighted during the site inspection and discussions with the Principal Environmental Adviser, no complaints relating to environmental aspects had been received during the audit period (and therefore, no documentation was provided for review).

## 3.8 Incidents

Environmental incidents are managed in Aurizon's SHEM database, 'BEAKON' in accordance with the Hexham TSF Environmental Management Plan **section 5.0**. Incidents are reported in Compliance Reporting prepared by Aurizon in relation to the Site.

Based on documentation provided and discussions with the Principal Environmental Adviser, seven environmental incidents occurred during the audit period (**Table 3.4**). All seven environmental incidents relate to fuel or oil spills. Based on the incident details provided, the controls in place and incident response and management measures implemented appear to be adequate.

According to the incident records provided, no notifiable incidents occurred during the audit period and no enforcement actions were undertaken by any agency.

**Table 3.4: Summary of incidents recorded during the audit period**

<b>Aurizon Incident Record No.</b>	<b>Date</b>	<b>Incident Details and Management Response</b>
<b>5116</b>	10/05/2022 14:09	<ul style="list-style-type: none"> <li>Oil spill (5 litres) from provisioning truck, in bunded area at the Provisioning Facility.</li> <li>Spill contained and cleaned up. Contractor engaged to undertake maintenance on truck.</li> <li>No investigation was considered to be required.</li> </ul>
<b>5357</b>	22/05/2022 18:15	<ul style="list-style-type: none"> <li>Coolant and oil spill (volume not reported) from hoses connected to locomotive in the CMF.</li> <li>Stopped work and deployed spill kit.</li> <li>No investigation was considered to be required.</li> </ul>
<b>6785</b>	2/09/2022 13:10	<ul style="list-style-type: none"> <li>Oil spill (volume not reported) from provisioning truck, in bunded fuel unloading area at the Provisioning Facility.</li> <li>Stopped work and deployed spill kit. Contractor engaged to undertake maintenance on truck.</li> <li>No investigation was considered to be required.</li> </ul>
<b>7540</b>	11/11/2022 13:17	<ul style="list-style-type: none"> <li>Engine oil overfill, at the CMF. No spill observed.</li> <li>Stopped work to assess if any spill (none observed).</li> <li>No investigation was considered to be required.</li> </ul>
<b>8880</b>	19/03/2023 15:22	<ul style="list-style-type: none"> <li>Fuel spill (volume described as a 'couple of litres'), during refuelling at the CMF.</li> <li>Stopped work and deployed spill kit. Contractor engaged to install isolation valves and modify refuelling arm, to prevent reoccurrence.</li> <li>No investigation was considered to be required.</li> </ul>
<b>13656</b>	11/04/2024 6:45	<ul style="list-style-type: none"> <li>Oil spill (5 litres) involving waste contractor, Remondis, on the turning circle, near the CMF.</li> <li>Stopped work and deployed spill kit to contain the spill.</li> <li>No investigation was considered to be required.</li> </ul>



Aurizon Incident Record No.	Date	Incident Details and Management Response
15836	06/09/2024 22:48	<ul style="list-style-type: none"> <li>Diesel fuel spill (1,500 L) in pump container, during fuel delivery, at the Provisioning Facility.</li> <li>Stopped work and contained spill. Fuel contained and drained into overflow drains (to trade waste system (consists of 2 x 10kL tanks)).</li> <li>Investigation details not included in documentation provided.</li> </ul>

### 3.9 Actual versus predicted environmental impacts

The audit has included a review of the actual versus predicted environmental impacts from site operations as identified in Section 5.25 Modification to SSI-6090 (formerly MP07\_0171) Hexham LTTTSF – Ancillary Depot and Wagon Storage (Ethos Urban, 2022).

The physical extent of the completed depot relocation project appeared to be consistent with the approved boundary shown in Figures 1 to 3 of the environmental assessment (Ethos Urban, 2022). It is noted that ground works at the proposed additional wagon storage facility area had not commenced at the time of the audit.

The predicted environmental impacts are summarised in **Table 3.5**, and compared against the findings of the audit. The additional mitigation measures for the Depot Relocation (Mod 2) works, as described in the EA (Ethos Urban 2022), have generally been implemented (refer to **Appendix B Table B4**). Based on the information provided and the site inspection, there is no evidence that actual impacts are greater than predicted.

**Table 3.5: Comparison of actual versus predicted environmental impacts**

Environmental Impact	Predicted Impacts	Audit Findings
<b>Stormwater and Water Quality</b>	<p>Impacts of the Modification Proposal on stormwater quantity are comparable to the impacts of the baseline condition.</p> <p>Negligible change in concentrations of nutrients at the outlet of Basin 02, well below the discharge criteria.</p> <p>Extent of excavations associated with the Modification Proposal are not anticipated to impact groundwater on the site.</p>	<p>Basin 2, which receives drainage from the catchment area of the Depot relocation works was reported to be dry for all 2023 monthly monitoring events. The second quarterly monitoring report for 2024 was also provided. Basin 2 was reported dry for all monitoring except a rainfall event in May. No exceedances were reported for Basin 2.</p> <p>Groundwater was not reported as intersected during construction works.</p>
<b>Flooding</b>	<p>Similar outcomes to the flooding assessment undertaken for the Turning Angle modification (Modification 1) and would not result in any off-site flood impacts.</p> <p>No changes in flood levels at the 1% AEP or lower at the depot and warehouse.</p>	<p>No flood events occurred during the audit period that would indicate effects are greater than predicted.</p>
<b>Contaminated Land and Soils</b>	<p>Potential for PASS/ASS to be exposed to oxygen during construction.</p> <p>Low risk of contamination being encountered during construction that would require remediation</p> <p>Operations not anticipated to involve activities that disturb the ground surface.</p> <p>No significant impacts to soil salinity throughout the construction or operation phases.</p>	<p>No unexpected contamination finds and no PASS were reported to have been encountered during Depot Relocation works.</p> <p>The new facilities primarily comprise buildings and sealed surface carparking areas, with landscaping.</p>





Environmental Impact	Predicted Impacts	Audit Findings
<b>Traffic and Transport</b>	Proposed access, car parking and servicing arrangements satisfy the relevant Newcastle Development Control Plan (DCP) 2012 and AS2890 requirements. Construction traffic demand will be less than the operational traffic demand. The intersections at the Tarro interchange will operate within acceptable performance levels.	Access to the site is via Tarro Interchange only. Minimal traffic was observed on-site during the site inspection. Vehicle movements observed occurred on designated access roads only and carparking was in dedicated spaces. No traffic complaints have been received during the audit period.
<b>Noise and Vibration</b>	Predicted construction noise levels are within Noise Management Levels (NMLs) at all noise sensitive receiver locations. Predicted operational noise levels were within noise limits at all receivers except two nearby residences (up to 2 dB exceedance).	Minimal noise was observed during the site inspection. No noise complaints have been received during the audit period.
<b>Heritage</b>	Low to negligible chance of any Aboriginal objects or sites being located within the site. No predicted impact on non-Aboriginal heritage.	No unexpected heritage finds were reported during Depot Relocation works.
<b>Visual Impact</b>	Site not typically visible from major roads and the majority of surrounding urban and rural areas. Overall Effect of Significance was predicted to be minor.	Visual impacts observed during the site inspection appeared consistent with the impact assessment. No visual amenity complaints have been received during the audit period.

### 3.10 Site inspection and interviews

Relevant evidence collected during the site inspection and interviews is documented in the Audit Tables in **Appendix B** and site photographs in **Appendix E**.

### 3.11 Compliance performance

During the audit, a total of 226 conditions and commitments were identified, and of these, 107 conditions were not triggered (i.e. these were not relevant to the audit scope and period) and 7 conditions were notes to provide further information (and therefore not auditable). Of the 112 remaining audited conditions and commitments, 103 were considered compliant and 9 were considered non-compliant.

A full description and list of the IEA's audit findings are provided in the tables in **Appendix B**. A summary of the compliance performance for the audit scope and period is provided in **Table 3.6**.

**Table 3.6: Summary of compliance performance**

Compliance Status	Consolidated Approval <sup>1</sup>	EA SoC <sup>2</sup>	Mod 1 EA SoC <sup>3</sup>	Mod 2 EA SoC <sup>4</sup>	Total.	Percentage of assessed conditions
Compliant	70	20	4	9	103	92%
Non-Compliant	6	0	1	2	9	8%
Not Triggered	65	36	6	0	107	-
Note	4	0	0	3	7	-
Total Conditions	145	56	11	14	226	-
Total assessed conditions (excl notes & not triggered)	76	20	5	11	112	100%

Table notes:

1. Appendix B, Table B1
2. Appendix B, Table B2
3. Appendix B, Table B3
4. Appendix B, Table B4



### 3.12 Non-compliances

Details of the non-compliances identified during the audit are summarised in **Table 3.7**. Audit findings are reported below by exception only, therefore, compliance with other conditions and commitments within the scope of the audit should be assumed to be compliant or not triggered if not reported otherwise.

**Table 3.7: Summary of non-compliances**

Non-compliance ID	Condition ID	Condition	Finding	Recommended Action
NC 1	C19	<p>A Surface Water and Groundwater Monitoring Program shall be prepared and implemented to monitor impacts on surface water and groundwater quality and hydrology.</p> <p>.....Monitoring shall be undertaken in accordance with the requirements of the approved Construction Soil and Water Management Plan required under Condition E 63(d) and Operation Environment Management Plan required by condition F2.....</p>	<p>Annual Water Monitoring reports for 2021 (GHD, date 2/03/2022), 2022 (GHD, date 21/02/2023), and 2023 (GHD, date 8/03/2024) were provided. Monitoring was completed in accordance with SGMP requirements, with some exceptions as reported by Aurizon in the construction and operational compliance report relating to the audit period. Non-compliances relate to equipment malfunctions and one deviation from the sampling schedule in 2023. Aurizon has engaged with the contractor regarding corrective actions to address non-compliances (email from Maranciak, L. to Egan, H., date 05/06/2024, RE: Aurizon Hexham Compliance Report Actions). Corrective actions include hire of two sets of equipment (in case one is faulty) and hire commencement 2 days before site sampling to ensure received on time, checked and allows time for a replacement to be couriered if necessary. For holding time issues on Friday sampling events, an alternate laboratory option has been identified, though the contractor noted this may impact results.</p>	<p><b>NC Recommendation 1:</b> Monitor the effectiveness of corrective actions implemented by the contractor (GHD) to address equipment malfunction and sample holding time issues that impacted the Water Monitoring Program compliance.</p>



Non-compliance ID	Condition ID	Condition	Finding	Recommended Action
NC 2	D4	<p>A website providing information in relation to the SSI must be established before commencement of works and maintained for the duration of construction. Up-to-date information (excluding confidential commercial information) must be published before the relevant works commencing and maintained on the website or dedicated pages including: ...</p> <p>e) a current copy of each document required under the terms of this approval, which must be published before the commencement of any works to which they relate or before their implementation, as the case may be; and ...</p> <p>Documents related to the construction of the project shall be maintained for a minimum of 24 months following the completion of construction of the Turning Angle Works.</p> <p>Documents related to the operation of the project must be maintained for the life of the project.</p>	<p>A copy of the CEMP (Aurizon, Revision 1, date 10/08/2022) was not available at <a href="https://www.aurizon.com.au/sustainability/environmental-management/hexham-train-support-facility-depot-relocation">https://www.aurizon.com.au/sustainability/environmental-management/hexham-train-support-facility-depot-relocation</a> on the 18 November 2024.</p>	<p><b>NC Recommendation 2:</b> Ensure that a copy of the CEMP (Aurizon, Revision 1, date 10/08/2022) is uploaded to the project website.</p>
NC 3	D5	<p>No later than 4 weeks before the commencement of construction, a <b>Compliance Monitoring and Reporting Program</b> prepared in accordance with the Compliance Reporting Requirements (Department 2018) must be endorsed by the <b>ER</b> and submitted to the Department.</p>	<p>Modification 2 construction commenced on 9 December 2022. A letter confirming DPE and Planning Secretary approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the Construction Environmental Management Plan (Revision 1, date 10/08/2022), which includes details of the Compliance Monitoring and Reporting Program, was provided. The CEMP compliance tracking section referenced and reflected the Compliance Reporting Post-Approval Requirements (PAR) (DPE 2020).</p>	<p><b>NC Recommendation 3:</b> Any CEMPs and compliance reporting for future developments must reference and reflect the Compliance Reporting table contained in Compliance Reporting PAR (DPE 2018), until such time as approval condition D5 and D5A are updated to enable the latest guideline version to be adopted.</p>



Non-compliance ID	Condition ID	Condition	Finding	Recommended Action
NC 4	D5a	Compliance reports of the SSI must be carried out in accordance with the Compliance Reporting Requirements (Department 2018). The Department must be notified of the commencement dates of construction and operation of the SSI in the pre-construction and pre-operational compliance reports.	<p>The minimum frequency of compliance reporting set out in the Compliance Reporting Post-Approval Requirements (PAR) (DPE 2018) includes a Pre-Construction Compliance Report, which was not completed in relation to Mod 2 Depot Relocation. The Compliance Reporting PAR (DPE 2018) were replaced by the Compliance Reporting PAR (DPIE 2020), which, amongst other things, removed the pre-construction and pre-operation reporting requirement. However, unless the conditions are modified, Aurizon must still comply with existing conditions (including approvals subject to the Compliance Reporting PAR (December 2018)).</p> <p>The Compliance Reporting PAR (DPIE 2020) were mistakenly adopted for the Depot Modification project, as per the approved CEMP, and therefore the pre-construction reporting requirement was not met for the development.</p> <p>This non-compliance was identified and reported in the following compliance reports:</p> <ul style="list-style-type: none"> <li>CCR 1 (Revision 1, date 1/06/2023),</li> <li>CCR 2 (Revision 1, date 31/07/2023),</li> <li>OCR 2022 (Revision 2, date 26/04/2023) and</li> <li>OCR 2023 (Revision 1, date 15/03/2024).</li> </ul> <p>CCR 2 is also referred to as the Pre-Operations Compliance Report.</p>	<p><b>NC Recommendation 3:</b> Any CEMPs and compliance reporting for future developments must reference and reflect the Compliance Reporting table contained in Compliance Reporting PAR (DPE 2018), until such time as approval condition D5 and D5A are updated to enable the latest guideline version to be adopted.</p>
NC 5	D5c	The Proponent must make each compliance report publicly available and notify the Department in writing when this has been done.	<p>As per D5 and D5A above, the Pre-Construction Compliance Report was not completed, and is therefore not available. Annual operational compliance reports for 2022 and 2023 are available on the Aurizon Hexham website, as well as two construction compliance reports for Mod 2 works. CCR 2 is also referred to as the Pre-Operations Compliance Report.</p>	<p><b>NC Recommendation 3:</b> Any CEMPs and compliance reporting for future developments must reference and reflect the Compliance Reporting table contained in Compliance Reporting PAR (DPE 2018), until such time as approval condition D5 and D5A are updated to enable the latest guideline version to be adopted.</p>





Non-compliance ID	Condition ID	Condition	Finding	Recommended Action
NC 6	D5d	The <b>Compliance Monitoring and Reporting Program</b> in the form required under Condition A30 of this approval must be implemented for the duration of construction and for a minimum of one (1) year following commencement of operation, or for a longer period as determined by the Planning Secretary based on the outcomes of independent audits and regular compliance reviews submitted through <b>Compliance Reports</b> . If staged operation is proposed, or operation is commenced of part of the SSI, the <b>Compliance Monitoring and Reporting Program</b> must be implemented for the relevant period of each stage or part of the SSI.	<p>Implementation of the compliance monitoring and reporting program is evidenced by:</p> <p>CCR 1 (Aurizon, Revision 1, date 1/06/2023), CCR 2 (Aurizon, Revision 1, date 31/07/2023), OCR 2022 (Aurizon, Revision 2, date 26/04/2023) and OCR 2023 (Aurizon, Revision 1, date 15/03/2024).</p> <p>Internal Compliance Audits: Hexham Annual Environmental Compliance Audit – 2023 (Aurizon, Revision 1, 21/03/2023) and Hexham Annual Environmental Compliance Audit – 2024 (Aurizon, Revision 1, 5/04/2024).</p> <p>Quarterly and Annual Groundwater Monitoring Reports</p> <p>Quarterly Waste Water Treatment Plan Reports.</p> <p>SHE Inspection Quarterly Reports (Aurizon, date 13/06/2023 and 28/06/2024).</p> <p>However, as per D5A above, as the Pre-Construction Compliance Report was not completed, performance against this condition is non-compliant.</p> <p>Note: there is no condition A30 included in the approval.</p>	<b>NC Recommendation 3:</b> Any CEMPs and compliance reporting for future developments must reference and reflect the Compliance Reporting table contained in Compliance Reporting PAR (DPE 2018), until such time as approval condition D5 and D5A are updated to enable the latest guideline version to be adopted.
NC 7	Mod 1 Statement of Commitments (Soil Salinity – SGMP Section 3.2)	<p>The following mitigation measures will be implemented to minimise potential impacts to soil salinity: ...</p> <p>The surface and groundwater monitoring program currently undertaken by Aurizon is to continue. Any exceedances of the adopted conductivity performance criteria are to be investigated to determine the cause, potential impacts and feasible mitigation measures.</p>	Electrical conductivity in groundwater exceeded the performance criteria in several instances, and were noted to be generally increasing at 3 locations. Possible causes, impacts and mitigation measures are not discussed in the Annual Water Monitoring Report 2023 (GHD, 2024) or the OCR (2023) (Aurizon, 15 March 2024).	<b>NC Recommendation 4:</b> Where exceedances of electrical conductivity performance criteria are identified, ensure that the monitoring data are reviewed to assess potential causes. Where Aurizon site operations are considered likely to contribute to or cause the exceedances, assessments should also consider impacts to soil salinity and feasible mitigation measures, in accordance with the SGMP. Details of the assessment should be reported in the Annual Surface and Groundwater Monitoring Report and/or Annual Operational Compliance Report.



Non-compliance ID	Condition ID	Condition	Finding	Recommended Action
NC 8	Mod 2 Statement of Commitments (Water Monitoring)	Continue groundwater and surface water monitoring and reporting as per the OSGMP.	Groundwater and surface water monitoring has continued under the Surface and Groundwater Monitoring Plan. Refer to <b>NC 1</b> , Condition C19 for discussion of evidence and non-compliance issues.	Refer to <b>NC Recommendation 1</b> above.
NC 9	Mod 2 Statement of Commitments (Water - Stormwater Management) And OEMP Section 4.2	Maintain the existing stormwater management system as per the existing Operational Stormwater Management Sub-Plan.	<p>Section 4.2 of the Hexham TSF Stormwater Management Plan (SWMP) (revision 12, 09/08/24) includes a requirement for waterway and drainage inspection per the Stormwater Maintenance Checklist. Section 6.2 Table 11 of the SWMP includes details of items for inspection and frequency.</p> <p>Section 4.2 Table 16 of the Hexham TSF Environmental Management Plan (OEMP) includes inspection and audit requirements, including monthly inspections for Site and Surrounds, CMF and Provisioning Shed and Drainage and Stormwater.</p> <p>During the site inspection and interviews, copies of the referenced environmental inspection reports were requested, however the latest record identified was dated 29 October 2021. It was advised by Aurizon that inspections had occurred and actions raised as needed, however they were not formally scheduled or documented.</p> <p>A copy of a Hexham OEMP Audit Storm Water Quarterly checklist was provided (Aurizon, dated 5/12/2024, after the audit period) which included items relating to drain maintenance, condition of basins, and containment of waste, fuels, oils and other chemicals. Observations made in the audit were generally positive, with two notes regarding a need for maintenance of vegetation around basins and a note regarding a need for cleaning of drain nets. Daracon was noted to be already scheduled to complete these maintenance works at the time of the quarterly audit.</p> <p>Two monthly maintenance checklist examples were provided, both from 15 November 2024 (report HEXBFF-MS-2024-01, and report HEXCMF-MS-2024-01), which included detailed inspections for components in fuel, oil, coolant, sand and other liquid systems.</p>	<b>NC Recommendation 5:</b> Undertake the environmental inspections required under the Hexham TSF Stormwater Management Plan and Environmental Management Plan and implement a formal system for scheduling, completing, documenting and reviewing the inspections.



### 3.13 Improvement opportunities

Opportunities for improvement (OFIs) identified during the IEA are summarised in **Table 3.8**, with recommended improvement actions.

**Table 3.8: Summary of Opportunities for Improvement**

ID	Aspect	Finding Summary and Recommendation
OFI 1	Condition C24 (Dangerous Goods storage and handling)	Packaged chemicals (i.e., drums and IBCs) were observed to be stored in covered and bunded locations, with the exception of palletised drums stored near the DAF Plant, outside the bund (refer to site photographs). Ensure all chemical drums are stored in appropriately bunded areas.
OFI 2	Condition C24 (Dangerous Goods storage and handling)	<p>The 2018 IEA (EMM, 2019) 'identified risk for potential leaks from diesel storage infrastructure, in particular from pipework connections where there is no bunding installed' and recommended a Dangerous Goods Storage Review. The Hazardous Chemical and Dangerous Goods Storage Review was completed by Occupational Hygiene Consulting Pty Ltd in November 2021. The six bulk diesel storage containers storage locations were reviewed for placarding, bund capacity, labelling and segregation compliance against AS1940:2017 and considered compliant. It is noted that the report did not comment on secondary containment of pipework. A number of recommendations to address compliance with statutory requirements relevant to the storage of Dangerous Goods were made. Evidence of completion of these recommendations was not provided. At least one recommendation was observed during the site inspection to have not been implemented (recommendation item 94 – placarding of combustible liquids).</p> <p>Aurizon should demonstrate that the recommendations made in the Hazardous Chemical and Dangerous Goods Storage Review (Occupational Hygiene Consulting Pty Ltd, November 2021) have been addressed.</p>
OFI 3	Condition C24 (Dangerous Goods storage and handling)	<p>Pipework connected to the diesel ASTs is single skinned. Majority of pipework is steel pipe, however there are flexible braided pipe sections between the bulk tanks, which is to allow for differential settlement. The pipework at the diesel tanks is not bunded. Aurizon noted that the bulk diesel tanks were due for 10-year inspection but was unable to provide clarification on the required preventative maintenance and inspection frequency for the braided sections of pipe. A similar braided pipe is also part of the diesel refuelling station at the southern yard provisioning area.</p> <p>Determine the required preventative maintenance, inspection and replacement frequencies for the braided sections of pipe at the bulk diesel storage area and southern yard provisioning area and add these to the Aurizon preventative maintenance system.</p>
OFI 4	Condition C25 (liquid and/or non-liquid waste handling and classification)	<p>During the site inspection, dedicated oily rag bins were not observed in the Provisioning Facility and CMF, and it was unclear if these were being appropriately segregated from general waste in accordance with the Waste Management Plan (WMP). Site representatives noted that few waste oily rags were generated.</p> <p>Ensure that oily rags are placed in dedicated bins as per the Waste Management Plan (WMP), or update the WMP to reflect current site practice for collection and disposal of oily rags.</p>
OFI 5	D1 (Community Communication Strategy)	<p>The Community Communication Strategy includes several KPIs which were not reported on during the audit period.</p> <p>For future modifications, ensure that a system is implemented for tracking and reporting on Community Communication Strategy KPIs.</p>
OFI 6	TSF Statement of Commitments – Effluent Disposal (establishment of a wastewater system)	<p>The biological treatment stage of the Wastewater treatment plant had been adversely affected in the months preceding the site inspection, with the cause identified as a cleaning chemical brought to site by new cleaning contractors (per September 2024 monthly field service report). Effluent quality had been adversely affected by the WWTP issues. The effluent was reported to have been pumped to the wet weather holding dam pending resolution of treatment issues.</p> <p>Review the sites process for approval of chemicals brought to site by Contractors, to ensure the chemicals and intended usage do not adversely impact environmental control equipment such as the Dissolved Air Flotation Unit or the Wastewater treatment plant.</p>



<b>OFI 7</b>	TSF Statement of Commitments – Effluent Disposal (Irrigation)  Also SWMP Section 3.3.4)	There was no clearly observable catch drain or bund down-slope of the irrigation area in the event that excess irrigation water was to run-off. Aurizon was unable to provide as built drawings to confirm the contours and design intent met commitment (g).  Aurizon should confirm the grading and use of the irrigation area is such that any run-off can be captured (i.e. through infiltration). The installation of catch bunds to capture run-off should be reconsidered as part of any future works that may increase the volume of treated effluent applied to the irrigation area.
<b>OFI 8</b>	Mod 1 Statement of Commitments (Soil Salinity – SGMP Section 3.2)	The SGMP section 3.2 states that 'in the event that chronic exceedances of the listed performance criteria are recorded an investigation into the cause, potential impacts and feasible mitigation options will be triggered.' There is no definition provided for what may be considered a 'chronic exceedance'.  Consider updating the SGMP Section 3.2 to include objective trigger/action levels, for example: Where chronic exceedances are identified (defined as exceedances over 3 or more consecutive monitoring events), monitoring data are to be reviewed to identify potential causes. Where Aurizon site operations are considered likely to contribute to or cause the exceedances, further assessment of potential impacts and feasible mitigation measures, will be undertaken. Details of the assessment should be reported in the Annual Surface and Groundwater Monitoring Report and/or Annual Operational Compliance Report.
<b>OFI 9</b>	Compliance Tracking Program	The 'Compliance Tracking Program' spreadsheet does not include 'due dates' for the conditions where a due date applies, and does not include version history or document review details.  Update the Compliance Tracking Program spreadsheet to include: (a) Document control information including version history and review details; and (b) Reporting/compliance due dates, where relevant.
<b>OFI 10</b>	SERP 'Hazardous Material' and 'Environmental Incident' sections	The SERP 'Hazardous Material' and 'Environmental Incident' sections do not distinguish between major and minor spill events and does not include guidance on what is considered a 'small oil or fuel spill'.  Consider updating the SERP to clarify what is considered a major and a minor spill and therefore when to apply the 'small oil or fuel spill' procedure. Alternatively, remove references to the size of the spill and clarify the application of the spill response procedures contained in the SERP.
<b>OFI 11</b>	OEMP Section 3.7.2	The management measures and monitoring requirements for dangerous goods, as described in the OEMP Section 3.7, are high level only. OEMP Section 3.7.2 includes reference to chlorine; however, it was confirmed during the site inspection that, none is stored or used on-site (the material used is liquid sodium hypochlorite, or solid chlorine tablets of the type used in swimming pools) and that this is a typographical error in the OEMP.  Update the OEMP to reference the correct chemical names of hazardous and dangerous goods stored and used on site. Consider also including a cross-reference or link to the site dangerous goods register (and/or ChemWatch) and location plan, for completeness.
<b>OFI 12</b>	SMP Section 3.2 Surface Disturbance Protocol	SMP Section 3.2 refers to the Aurizon 14-FRM-006-WHS Permit to Work. During the site inspection and interviews, it was confirmed that the permit is not widely used and that the site has adopted an alternative form.  The SMP should be updated to reflect the actual permit process to be used prior to breaking ground.
<b>OFI 13</b>	SWMP Section 3.2 and Section 4.2	SWMP Section 3.2 and Section 4.2 refer to the Aurizon 14-FRM-006-WHS Permit to Work. During the site inspection and interviews, it was confirmed that the permit is not widely used and that the site has adopted an alternative form – the Hexham Depot Permit to Work.  The SMP should be updated to reflect the actual permit process, which should include how the sediment and erosion control measures previously documented in 14-FRM-006-WHS Permit to Work are currently documented.



<b>OFI 14</b>	SGMP Section 2.3	<p>Annual surface water and groundwater monitoring reports for 2021, 2022 and 2023 state that the analytical limits of reporting are higher than the performance criteria for anthracene, benzo(a) pyrene and phenanthrene, and therefore no conclusion can be drawn regarding these contaminants.</p> <p>The SGMP should specify that trace analysis is required for these analytes, in order to resolve this data gap.</p>
<b>OFI 15</b>	SGMP Section 2.0	<p>The scope of groundwater and surface water monitoring in the SGMP is extensive and complex. The TSF has been in operation for a number of years, and there may be an opportunity to undertake an in-depth review and potentially consolidate the monitoring (in consultation with DPHI) to focus on a) contemporary understanding of risks associated with operations and b) risks associated with historical contamination underlying the site.</p>

### 3.14 Key strengths

Based on the observations and findings made during this IEA, the operation of the Hexham TSF is generally well managed, with good housekeeping practices in place. Roles and responsibilities for environmental management are formally delegated in the OEMP and understood by the relevant personnel. With some limited exceptions, environmental management and mitigation measures, as described in the OEMP and sub-plans, are generally effectively implemented at the site.

The following positive observations were made during the IEA:

- Track matting (oil capture), dry break couplings and emergency stop buttons in place at the diesel provisioning location in the southern yard area, to minimise risk and potential impacts from locomotive drips or fuel leaks.
- Staff and wastewater treatment plant contractor interviewed were knowledgeable and engaged about environmental issues and management.
- Internal annual audit process is robust, and the site environmental contact had well organised documentation to support the audit process.
- Effective spill management controls, including spill kits and reported containment within site capture systems of spills that did occur during the audit period.
- Good site housekeeping in the operational areas observed.





## 4.0 Recommendations

Details of recommendations to address non-compliances and potential opportunities for improvement, which have been identified through this IEA process are summarised in **Table 4.1**.

**Table 4.1: Audit Recommendations**

NC Recommendation/ OFI ID	Aspect	Recommended Action
<b>Non-Compliance Recommendations</b>		
<b>NC Recommendation 1</b>	Surface Water and Groundwater Monitoring Plan compliance	<b>NC Recommendation 1:</b> Monitor the effectiveness of corrective actions implemented by the contractor (GHD) to address equipment malfunction and sample holding time issues that impacted the Water Monitoring Program compliance.
<b>NC Recommendation 2</b>	Publicly available documents	<b>NC Recommendation 2:</b> Ensure that a copy of the CEMP (Aurizon, Revision 1, date 10/08/2022) is uploaded to the project website.
<b>NC Recommendation 3</b>	Compliance reporting requirements	<b>NC Recommendation 3:</b> Any CEMPs and compliance reporting for future developments must reference and reflect the Compliance Reporting table contained in Compliance Reporting PAR (DPE 2018), until such time as approval condition D5 and D5A are updated to enable the latest guideline version to be adopted.
<b>NC Recommendation 4</b>	Investigation of the cause, potential impacts and feasible mitigation measures for exceedances in Water Monitoring Reports	<b>NC Recommendation 4:</b> Where exceedances of electrical conductivity performance criteria are identified, ensure that the monitoring data are reviewed to assess potential causes. Where Aurizon site operations are considered likely to contribute to or cause the exceedances, assessments should also consider impacts to soil salinity and feasible mitigation measures, in accordance with the SGMP. Details of the assessment should be reported in the Annual Surface and Groundwater Monitoring Report and/or Annual Operational Compliance Report.
<b>NC Recommendation 5</b>	SWMP and OEMP inspections	<b>NC Recommendation 5:</b> Undertake the environmental inspections required under the Hexham TSF Stormwater Management Plan and Environmental Management Plan and implement a formal system for scheduling, completing, documenting and reviewing the inspections.



NC Recommendation/ OFI ID	Aspect	Recommended Action
<b>Opportunities for Improvement Recommendations</b>		
<b>OFI 1</b>	Dangerous goods and chemical storage	Ensure all chemical drums are stored in appropriately bunded areas.
<b>OFI 2</b>	Hazardous Chemical and Dangerous Goods Storage Review (Occupational Hygiene Consulting Pty Ltd, November 2021) recommendations	Aurizon should demonstrate that the recommendations made in the Hazardous Chemical and Dangerous Goods Storage Review (Occupational Hygiene Consulting Pty Ltd, November 2021) have been addressed.
<b>OFI 3</b>	Preventative maintenance for dangerous goods equipment	Determine the required preventative maintenance, inspection and replacement frequencies for the braided sections of pipe at the bulk diesel storage area and southern yard provisioning area and add these to the Aurizon preventative maintenance system.
<b>OFI 4</b>	Liquid and/or non-liquid waste handling and classification	Ensure that oily rags are placed in dedicated bins as per the Waste Management Plan (WMP), or update the WMP to reflect current site practice for collection and disposal of oily rags.
<b>OFI 5</b>	Community Communication Strategy KPIs	For future modifications, ensure that a system is implemented for tracking and reporting on Community Communication Strategy KPIs.
<b>OFI 6</b>	Approval of chemicals to be used by contractors	Review the sites process for approval of chemicals brought to site by Contractors, to ensure the chemicals and intended usage do not adversely impact environmental control equipment such as the Dissolved Air Flotation Unit or the Wastewater treatment plant.
<b>OFI 7</b>	Irrigation area run-off	Aurizon should confirm the grading and use of the irrigation area is such that any run-off can be captured (i.e. through infiltration). The installation of catch bunds to capture run-off should be reconsidered as part of any future works that may increase the volume of treated effluent applied to the irrigation area.
<b>OFI 8</b>	SGMP Section 3.2 – trigger/action level definition	Consider updating the SGMP Section 3.2 to include objective trigger/action levels, for example: Where chronic exceedances are identified (defined as exceedances over 3 or more consecutive monitoring events), monitoring data are to be reviewed to identify potential causes. Where Aurizon site operations are considered likely to contribute to or cause the exceedances, further assessment of potential impacts and feasible mitigation measures, will be undertaken. Details of the assessment should be reported in the Annual Surface and Groundwater Monitoring Report and/or Annual Operational Compliance Report.
<b>OFI 9</b>	Compliance Tracking Program – document control updates	Update the Compliance Tracking Program spreadsheet to include: (a) Document control information including version history and review details; and (b) Reporting/compliance due dates, where relevant.



NC Recommendation/ OFI ID	Aspect	Recommended Action
<b>OFI 10</b>	SERP 'Hazardous Material' and 'Environmental Incident' sections	Consider updating the SERP to clarify what is considered a major and a minor spill and therefore when to apply the 'small oil or fuel spill' procedure. Alternatively, remove references to the size of the spill and clarify the application of the spill response procedures contained in the SERP.
<b>OFI 11</b>	OEMP Section 3.7.2 dangerous goods	Update the OEMP to reference the correct chemical names of hazardous and dangerous goods stored and used on site. Consider also including cross-reference or link to the site dangerous goods register (and/or ChemWatch) and location plan, for completeness.
<b>OFI 12</b>	SMP Section 3.2 Surface Disturbance Protocol	Consider updating the SMP to remove outdated permits and reflect actual permit processes used prior to breaking ground.
<b>OFI 13</b>	SWMP Section 3.2 and Section 4.2 permit processes	The SMP should be updated to reflect the actual permit processes used, which should include how the sediment and erosion control measures previously documented in 14-FRM-006-WHS Permit to Work are currently documented.
<b>OFI 14</b>	SGMP Section 2.3 trace analysis	The SGMP should specify that trace analysis is required for anthracene, benzo(a) pyrene and phenanthrene, to resolve current analytical limits of reporting being higher than performance criteria.
<b>OFI 15</b>	SGMP Section 2.0 monitoring program scope	The scope of groundwater and surface water monitoring in the SGMP is extensive and complex. The TSF has been in operation for a number of years, and there may be an opportunity to undertake an in-depth review and potentially consolidate the monitoring (in consultation with DPHI) to focus on a) contemporary understanding of risks associated with operations and b) risks associated with historical contamination underlying the site.



## 5.0 Conclusion

Aurizon engaged Senversa to undertake an IEA of its Hexham TSF, in accordance with Condition D5 of the Consolidated Approval for the Site. This IEA covers the period from 3 November 2021 to 18 November 2024.

The IEA has been completed in general accordance with the DPIE Independent Audit PARs (May 2020), and has included:

- Consultation with relevant external agencies – DPHI and NCC;
- A review of documentation provided by Aurizon and sourced from the Aurizon website;
- A site inspection and site interviews with key Aurizon personnel on 18 November 2024;
- A follow up RFI and interviews with additional interviews with key Aurizon personnel and contractor; and
- Preparation of this IEA report.

The relevant approval conditions and statements of commitments (SoC) are listed in the Audit Tables in **Appendix B**, along with details of the compliance status, evidence reviewed and audit findings and recommended actions.

The audit found that the operation of the Hexham TSF is generally being undertaken in accordance with the Consolidated Approval.

Overall, a total of 226 conditions and commitments were identified and, of these, 107 were not triggered (i.e. these were not relevant to the audit scope and period) and 7 were notes to provide further information. Of the 112 remaining audited conditions and commitments, 103 were considered compliant (92%) and 9 were considered non-compliant (8%). Four of the non-compliances related to a missed report due to use of a later version of a guideline document than that specified in the Consolidated Approval.

Additionally, several opportunities for improvement in environmental management at the Site have been identified, relating to management of dangerous goods, chemicals and waste, irrigation area run-off management, and updates to contents or implementation of management plans or programs. A summary of the recommended actions for non-compliances and opportunities for improvement is provided in **Table 4.1**.

Based on the observations and findings made during this IEA, the operation of the Hexham TSF is generally well managed, with good housekeeping practices in place. Roles and responsibilities for environmental management are formally delegated in the OEMP and understood by the relevant personnel. With some minor exceptions, environmental management and mitigation measures, as described in the OEMP and sub-plans, are generally effectively implemented at the site.



## 6.0 Principles and Limitations

This report was prepared in accordance with generally accepted consulting practice for audit services. The IEA applied a process of “general overview and reasonable checking” of the Project documentation, operations and construction activities. All applicable conditions of approval were assessed. A risk-based approach was used to target operational and environmental management activities with a higher potential for risk to the environment or to environmental management arrangements. Accordingly, it is possible that not all environmental issues will be examined during a single audit.

The following principles (summarised in the table below) are intended to be referred to in resolving any ambiguity or exercising such discretion.

Area	Description
<b>Limitations of Information</b>	<p>This report has been prepared by Senversa for the use of Aurizon. It is prepared in accordance with the scope of work and for the purpose outlined in the proposal dated 2 August 2024.</p> <p>The sources of information used by Senversa are outlined in this report. In preparing the report, Senversa has relied upon information prepared by companies including but not limited to Aurizon, SLR Consulting, GHD and Ethos Urban, and no independent verification of this information has been made beyond the agreed scope of works and we assume no liability for any inaccuracies in or omissions to that information. No indications were found during our development of this report that information contained within this report as provided to Senversa was intentionally false.</p>
<b>Level of Assessment</b>	<p>Senversa prepared this report in a manner consistent with the level of care and skill ordinarily exercised by members of Senversa’s profession practicing in the same locality under similar circumstances at the time the services were performed.</p>
<b>Nature of Advice</b>	<p>This report should be read in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties. Senversa does not seek or purport to provide legal or business advice.</p>



## Appendix A: Planning Secretary Audit Team Agreement

NSW Planning ref: SSI-6090-PA-69

Harry Egan

Principal Adviser Environment

Aurizon Operations Limited

Worimi Country

121 Woodstock Street

Mayfield North New South Wales 2322

04/09/2024

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Sent via the Major Projects Portal only

Subject: Hexham Train Facility - Independent Environmental Audit - Auditor

Dear Mr Egan

I refer to your request for the Planning Secretary's approval of suitably qualified, experienced, and independent persons to conduct an Independent Environmental Audit of the Hexham Train Support Facility, submitted as required by Condition D5 of SSI-6090 as modified (the approval) to NSW Department of Planning, Housing and Infrastructure (NSW Planning) on 26 August 2024.

NSW Planning has reviewed the independent auditor nominations and based on the information you have provided is satisfied that the proposed persons are suitably qualified, experienced, and independent.

In accordance with Condition D5 of the approval and the NSW Planning *Independent Audit Post Approval Requirements* (2020), as nominee of the Planning Secretary, I endorse the following independent audit team:

- Lead Auditor – Suanna Harvey
- Assistant Auditor – Emma Guy
- Assistant Auditor – Victoria Lampe

Please ensure this correspondence is appended to the Independent Audit Report.

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

NSW Planning reserves the right to request an alternate auditor or audit team for future audits.



Should you wish to discuss the matter further, please contact Joel Fleming, (Senior Compliance Officer) on 02 6575 3416 or email [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au)

Yours sincerely

A handwritten signature in black ink that reads "H Watters".

Heidi Watters  
Team Leader  
Compliance

As nominee of the Planning Secretary



## Appendix B: IEA Tables



Table B1 - SSI-6090 (formerly MP07\_0171) Mod 2 Consolidated Approval

Mod 1 Text

Mod 2 Text

Condition Number	Condition	Compliance Status	Evidence	Recommended Action													
Schedule B Administrative Controls																	
Terms of Approval																	
B1	The proponent shall carry out the SSI generally in accordance with the: a) Application MP 07_0171; b) Environmental Assessment, NSW Train Support Facility, Maitland Road, Hexham (ADW Johnson Pty Limited, November 2012); c) Preferred Project Report and Response to Submissions, NSW Train Support Facility, Maitland Road, Hexham (JBA, June 2013); d) State Significant Infrastructure – Modification: Detailed Environmental Assessment Report, Maitland Road, Hexham (Ethos Urban, June 2019); e) StateSignificantInfrastructureMP07_0171Modification: Response to Submissions (Ethos Urban, August 2019); and f) Depot Relocation Modification Assessment Report (Ethos Urban, April 2022); g) Hexham Long Term Train Stabling Facility Modification 2 (SSI-6090-Mod-2) – Response to Submissions Report h) Hexham Long Term Train Stabling Facility Modification 2 (SSI-6090-Mod-2) – Revised Modification Plans i) conditions of this approval.	Compliant	Based on site inspection and the audit findings presented in this table, the Modification 2 works completed at Hexham during the audit period have generally been undertaken in accordance with the Conditions of Approval, Statements of Commitments and Environmental Assessments.														
B2	In the event of an inconsistency between: a) the conditions of this approval and any document listed from condition B1(a) to B1(i) inclusive, the conditions of this approval shall prevail to the extent of the inconsistency; b) any document listed from condition B1(a) to B1(i) inclusive, the most recent document shall prevail to the extent of the inconsistency.	Note	Condition not auditable.														
B3	The Proponent shall comply with any reasonable requirement(s) of the Director-General arising from the Department’s assessment of: a) any reports, plans or correspondence that are submitted in accordance with this approval; and b) the implementation of any actions or measures contained within these reports, plans or correspondence.	Compliant	Except for responses to the 2021 IEA and Operational Compliance Reports, no directions were received from the Department during the audit period.														
B4	Subject to confidentiality, the Proponent shall make all documents required under this approval available for public inspection on request.	Compliant	All documents required under this approval were available on the Aurizon Hexham website on 18 November 2024, (with the exception of the CEMP prepared for the Depot Relocation (Mod 2) (Aurizon, Revision 1, date 10/08/2022), refer D4).  During the site inspection, it was confirmed that no direct public requests to view documents were received during the audit period, therefore this condition is assessed as compliant.														
B4A	The following Conditions of Approval do not apply to the Turning Angle Works: B5, C3, C16, C18, C22, C23, C33, C34, C35, C38, C39, E1, E5, E13, E14, E15, E16, E17, E24, E25, E26, E30, E32, E36, E42, E43, E44, E49, E59, E60, and F3.	Note	DPIE confirmed that Condition B4A also applies to the Modification 2 works (Email from Egan, H. to Harvey, S., RE: 21797 - Aurizon, Hexham TSF IEA - Request for Consultation, date 12/11/2024),														
B4B	Any references to entities listed in column A are to be interpreted as entities in column B throughout the approval: <table><tr><th>A</th><th>B</th></tr><tr><td>Director-General</td><td>Planning Secretary</td></tr><tr><td>Hunter-Central Rivers CMA</td><td>Hunter LLS</td></tr><tr><td>NoW</td><td>the Water Group</td></tr><tr><td>OEH</td><td>EESG</td></tr><tr><td>DPI</td><td>RIAR</td></tr><tr><td>Heritage Council, OEH (Heritage Branch) or Heritage Branch</td><td>Heritage Division</td></tr></table>	A	B	Director-General	Planning Secretary	Hunter-Central Rivers CMA	Hunter LLS	NoW	the Water Group	OEH	EESG	DPI	RIAR	Heritage Council, OEH (Heritage Branch) or Heritage Branch	Heritage Division	Note	Condition not auditable.
A	B																
Director-General	Planning Secretary																
Hunter-Central Rivers CMA	Hunter LLS																
NoW	the Water Group																
OEH	EESG																
DPI	RIAR																
Heritage Council, OEH (Heritage Branch) or Heritage Branch	Heritage Division																
Limits of Approval																	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
B5	This approval shall lapse 10 years after the date on which it is granted, unless works that are the subject of this SSI approval are physically commenced on or before that date.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Statutory Requirements				
B6	The Proponent shall ensure that all necessary licences, permits and approvals required for the development of the SSI are obtained and maintained as required throughout the life of the SSI. No condition of this approval removes the obligation for the Proponent to obtain, renew or comply with such necessary licences, permits or approvals.	Compliant	MP07_0171 Mod 2 Approval (Department of Planning, dated September 2022). Occupation Certificate (2015-0139, AcroCert, date 19/08/2015) no expiry. Building Code Design Compliance Statement (190069/01, Building Professionals Board NSW, date 17/12/2019) no expiry. Compliance of Design with Building Code of Australia 2019 AMDT 1 (CRO-20220158, MacCarthy Consulting Group, date 1/12/2022) no expiry. Approval to Operate a System of Sewage Management (OS2015/0503, City of Newcastle, date 29/09/2021) expiring on 30/06/2024. During the site inspection, an invoice received in August for the 2024 renewal of the STP permit was sighted. The site representative stated that the invoice was processed in mid-September 2024, but formal documentation had not yet been received from Newcastle City Council.	
B7	Any changes to the scope of the SSI activity shall be subject to a consistency review. Should the review identify activity scope and environmental impacts inconsistent with the assessed SSI activity, a modification to the Infrastructure Approval will be required.	Compliant	During the site inspection, the site representative confirmed that there had been no changes to the site operations and infrastructure, other than the approved changes under Modification 2.	
Staging				
<del>B8</del>	<del>The Proponent may elect to construct and/or operate the SSI in stages. Where staging is proposed, the Proponent shall submit a Staging Report to the Director General for approval prior to the commencement of the first proposed stage, which provides details of:</del> <del>a) how the SSI would be staged including general details of work activities associated with each stage and the general timing of when each stage would commence and be completed; and</del> <del>b) the relevant conditions of approval which would apply to each stage and how these will be addressed across and between the stages of the SSI.</del> <del>Where staging of the SSI is proposed, these conditions of approval are only required to be complied with at the relevant time and to the extent that they are relevant to the specific stage(s).</del> <del>The Proponent shall ensure that an updated Staging Report (or advice that no changes to staging are proposed) is submitted to the Director General for approval prior to the commencement of each stage, identifying any changes to the proposed staging or applicable conditions.</del>	Not Triggered	Condition not applicable.	
<del>B9</del>	<del>The Proponent shall ensure that all plans, sub-plans and other management documents required by the conditions of this approval and relevant to each stage (as identified in the Staging Report) are submitted to the Director General for approval no later than one month prior to the commencement of the relevant stage(s), unless otherwise agreed by the Director General.</del> <del>Note: These conditions do not relate to staged infrastructure within the meaning of section 115ZD of the Environmental Planning and Assessment Act 1979.</del>	Not Triggered	Condition not applicable.	
<del>B10</del>	<del>With the approval of the Director General, the Proponent may:</del> <del>a) submit any strategy, plan or program required by this approval on a progressive basis; and</del> <del>b) combine any strategy, plan or program required by this approval.</del> <del>Notes:</del> <del>• While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the existing activities on site are covered by suitable strategies, plans or programs at all times.</del> <del>• If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.</del>	Not Triggered	Condition not applicable.	
B8	The SSI may be constructed and operated in stages. Where staged construction or operation is proposed, a <b>Staging Report</b> (for either or both construction and operation as the case may be) must be prepared and submitted to the Planning Secretary no later than one month before the commencement of	Not Triggered	No staging was undertaken for Modification 2 (refer to Construction Compliance Report (CCR) 1 (Aurizon,	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
	construction of the first of the proposed stages of construction (or if only staged operation is proposed, one month before the commencement of operation of the first of the proposed stages of operation).		Revision 1, date 1/06/2023), CCR 2 (Aurizon, Revision 1, date 31/07/2023), Operational Compliance Report (OCR) 2022 (Aurizon, Revision 2, date 24/04/2023) and OCR 2023 (Aurizon, Revision 1, date 15/03/2024)). TSF staging outside of audit period.	
B9	<p>The <b>Staging Report</b> must:</p> <p>a) if staged construction is proposed, set out how the construction of the whole of the SSI will be staged, including details of work and other activities to be carried out in each stage and the general timing of when construction of each stage will commence and finish;</p> <p>b) if staged operation is proposed, set out how the operation of the whole of the SSI will be staged, including details of work and other activities to be carried out in each stage and the general timing of when operation of each stage will commence and finish (if relevant);</p> <p>c) specify how compliance with conditions will be achieved across and between each of the stages of the SSI; and</p> <p>d) (d) set out mechanisms for managing any cumulative impacts arising from the proposed staging.</p>	Not Triggered	No staging was undertaken for Modification 2 (refer to CCR 1 (Aurizon, Revision 1, date 1/06/2023), CCR 2 (Aurizon, Revision 1, date 31/07/2023), OCR 2022 (Aurizon, Revision 2, date 24/04/2023) and OCR 2023 (Aurizon, Revision 1, date 15/03/2024)). TSF staging outside of audit period.	
B10	The SSI must be staged in accordance with the <b>Staging Report</b> , as submitted to the Planning Secretary.	Not Triggered	No staging was undertaken for Modification 2 (refer to CCR 1 (Aurizon, Revision 1, date 1/06/2023), CCR 2 (Aurizon, Revision 1, date 31/07/2023), OCR 2022 (Aurizon, Revision 2, date 24/04/2023) and OCR 2023 (Aurizon, Revision 1, date 15/03/2024)). TSF staging outside of audit period.	
B10A	Where staging is proposed, the terms of this approval that apply or are relevant to the works or activities to be carried out in a specific stage must be complied with at the relevant time for that stage.	Not Triggered	No staging was undertaken for Modification 2 (refer to CCR 1 (Aurizon, Revision 1, date 1/06/2023), CCR 2 (Aurizon, Revision 1, date 31/07/2023), OCR 2022 (Aurizon, Revision 2, date 24/04/2023) and OCR 2023 (Aurizon, Revision 1, date 15/03/2024)). TSF staging outside of audit period.	
Compliance				
B11	The Proponent shall ensure that employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.	Compliant	<p>Site induction material for Hexham was sighted during the site inspection, noted to include an SHE induction which included all environmental aspects (noise, air, water, flora and fauna, etc.).</p> <p>An export from the PowerBI tracking system for employee training was provided for review, which was noted to include records of environmental awareness training.</p>	
B12	The Proponent shall be responsible for environmental impacts resulting from the actions of all persons that it invites onto the site, including contractors, sub-contractors and visitors.	Compliant	<p>Incident register provided. Two incidents classified as environmental in the system were recorded during the audit period (outside of construction dates; incident record numbers 13656 and 5357). Aurizon also provided details of one further environmental incident that occurred on 6 Sept 2024 (incident no.15836). Four other incidents were not classed as environmental in the register (classed as Not Applicable) but involved small oil spills. Aurizon clarified that the incident classifications are consistent with its enterprise-wide Incident Management Framework, which references the Protection of the Environment Operations Act 1997 (POEO Act).</p> <p>All seven environmental incidents relate to fuel or oil spills. Based on the incident details provided, the controls in place and incident response and management measures implemented appear to be adequate.</p> <p>According to the incident records provided, no notifiable incidents occurred during the audit period and no enforcement actions were undertaken by any agency.</p>	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action																																																							
B13	In the event of a dispute between the Proponent and a public authority in relation to an applicable requirement in this approval or relevant matter relating to the SSI, either party may refer the matter to the Director-General for resolution. The Director-General's determination of any such dispute shall be final and binding on the parties	Not Triggered	Based on CCR 1 (Aurizon, Revision 1, date 1/06/2023), CCR 2 (Aurizon, Revision 1, date 31/07/2023), OCR 2022 (Aurizon, Revision 2, date 24/04/2023) and OCR 2023 (Aurizon, Revision 1, date 15/03/2024), there have been no disputes during the audit period.  During the site inspection, it was also confirmed that no disputes between Aurizon and public authority occurred during the audit period.																																																								
Schedule C Environmental Performance																																																											
Noise and Vibration																																																											
Operational Noise and Vibration																																																											
C1	The SSI shall be designed and operated with the objective of not exceeding the vibration goals for human exposure for existing sensitive receivers, as presented in <i>Assessing Vibration: a Technical Guideline</i> (DECC, 2006).	Compliant	Section 5.25 Modification to SSI-6090 (formerly MP07_171): Hexham Long Term Train Support Facility – Ancillary Depot and Wagon Storage (Ethos Urban, date 8/04/2022) found that no additional mitigation measures were considered necessary for Modification 2 as the Depot construction and operation were not likely to change noise and vibration impacts.																																																								
C2	<p>The Proponent shall ensure that the SSI is designed and operated so as not to exceed the operational noise limits presented in Table 1 at the nominated receivers.</p> <p><b>Table 1: Operational Noise Limits (dB(A))</b></p> <table><tr><th>Receiver</th><th>Daytime LAeq (15 minute)</th><th>Evening LAeq (15 minute)</th><th>Night LAeq (15 minute)</th><th>Night LA1 (1 minute)</th></tr><tr><td>R1 Hain Property</td><td>46</td><td>46</td><td>45</td><td>56</td></tr><tr><td>R2 Lynch Property</td><td>60</td><td>50</td><td>45</td><td>62</td></tr><tr><td>R3 New England Highway</td><td>60</td><td>50</td><td>45</td><td>62</td></tr><tr><td>R4 Old Maitland Road (North)</td><td>45</td><td>45</td><td>44</td><td>54</td></tr><tr><td>R5 Old Maitland Road</td><td>45</td><td>45</td><td>44</td><td>54</td></tr><tr><td>R6 Old Maitland Road (South)</td><td>45</td><td>45</td><td>44</td><td>54</td></tr><tr><td>R7 Maitland Road</td><td>60</td><td>50</td><td>45</td><td>62</td></tr><tr><td>R8 Church Old Maitland Road</td><td colspan="3">40 (Internal - when in use)</td><td>N/A</td></tr><tr><td>R9 Tarro Primary School</td><td colspan="3">35 (Internal - when in use)</td><td>N/A</td></tr><tr><td>Hexham Reserve Swamp Nature</td><td colspan="3">50 (when in use)</td><td>N/A</td></tr></table> <p><b>Notes:</b></p> <ul style="list-style-type: none"><li>For the purposes of this condition, daytime is defined as the period from 7am to 6pm, Monday to Saturdays and 8am to 6pm on Sundays and public holidays. Evening is defined as the period from 6pm to 10pm and night time is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sundays and public holidays.</li><li>The noise emission limits apply under all meteorological conditions except during wind speeds greater than 3m/s at 10m height; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m height; or stability category G temperature inversion conditions as described in the NSW Industrial Noise Policy.</li><li>For the purpose of noise measurement required for this condition, the LAeq(15minute) noise level must be measured approximately on the property boundary, where any residence is situated 30m or from the property boundary closest to the premises; within 30m of a residence, but not closer than 3m, where any residence is located more than 30m from the boundary closest to the premises; and within 50m of the boundary of a National Park or Nature Reserve.</li><li>For the purpose of noise measurement required for this condition, the LA1(1minute) noise level must be measured within 1m of a residence.</li><li>Noise measurement equipment must be located at the most affected point at a location.</li></ul>	Receiver	Daytime LAeq (15 minute)	Evening LAeq (15 minute)	Night LAeq (15 minute)	Night LA1 (1 minute)	R1 Hain Property	46	46	45	56	R2 Lynch Property	60	50	45	62	R3 New England Highway	60	50	45	62	R4 Old Maitland Road (North)	45	45	44	54	R5 Old Maitland Road	45	45	44	54	R6 Old Maitland Road (South)	45	45	44	54	R7 Maitland Road	60	50	45	62	R8 Church Old Maitland Road	40 (Internal - when in use)			N/A	R9 Tarro Primary School	35 (Internal - when in use)			N/A	Hexham Reserve Swamp Nature	50 (when in use)			N/A	Compliant	Hexham Long Term Train Support Facility Ancillary Depot and Wagon Storage Noise Impact Assessment (SLR, date 4/03/2022) was undertaken prior to Modification 2 construction activities. This assessment concluded that construction noise impacts are predicted to be below relevant Noise Management Levels (NMLs, for construction) and Project Approval (operation) noise limits at all receivers.  During the site inspection, it was confirmed that no complaints were received during the audit period. No assessment was completed during construction or operation in the audit period to check that no exceedances of NMLs occurred, as no complaints were received.	
Receiver	Daytime LAeq (15 minute)	Evening LAeq (15 minute)	Night LAeq (15 minute)	Night LA1 (1 minute)																																																							
R1 Hain Property	46	46	45	56																																																							
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Biodiversity																																																											
Ecological Monitoring																																																											
C3	<p>Prior to the commencement of construction work that would result in the disturbance of any native vegetation, threatened flora and fauna or endangered ecological communities (EECs) and their habitats, the Proponent shall develop an Ecological Monitoring Program to monitor the effectiveness of the biodiversity mitigation measures implemented as part of the SSI. The Program shall be developed by a suitably qualified and experienced ecologist in consultation with the OEH. The Program shall include, but not necessarily be limited to:</p> <p>a) an adaptive monitoring program to assess the effectiveness of the mitigation measures identified in conditions E3, E4, E5, E7, E8, E9, E10, E11, E12 and E63</p>	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.																																																								



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
	<div><div><div>b) and allow amendment to the measures if necessary; (b) monitoring and/or assessment measures for assessing changes in groundwater dependent ecosystems, including impact assessment criteria;</div><div>c) identification of appropriate and justified monitoring periods and performance targets against which effectiveness of the mitigation measures will be measured;</div><div>d) provision for the assessment of data to identify changes to habitat usage and groundwater dependent ecosystems and if this can be attributed to the SSI activity;</div><div>e) details of contingency measures that would be implemented in the event of any exceedence of water quality thresholds which would be injurious to biotic systems and/or species, or changes to the structure and composition of groundwater dependent ecosystems which are directly attributable to the construction or operation of the SSI activity;</div><div>f) monitoring protocols for the Hunter Wetland National Park;</div><div>g) monitoring protocols for Saltmarsh endangered ecological community and Freshwater Wetland ecological community;</div><div>h) monitoring protocols for habitat conditions that support the Green and Golden Bell Frog;</div><div>i) mechanisms for developing additional monitoring protocols to assess the effectiveness of any additional mitigation measures implemented to address additional impacts in the case of design amendments or unexpected threatened species finds during construction (where these changes are generally consistent with the biodiversity impacts identified for the SSI in the documents listed under conditions B1 (a) and B1 (c) inclusive; and</div><div>j) provision for annual reporting of monitoring results to the Director-General and the OEH, or as otherwise agreed by the Director-General and the OEH.</div></div><div>Monitoring shall be undertaken during construction (for construction-related impacts) and upon operation of the SSI (for operation/ongoing impacts) until such time as the effectiveness of mitigation measures can be demonstrated to have been achieved over a minimum of three successive monitoring periods after the commencement of operation, or as otherwise agreed by the Director-General.</div></div>			
Biodiversity Offsets				
C4	<div><div><div><div><div>In the event that the extent, type or condition of native vegetation communities or flora and fauna habitat are to be lost or degraded as a result of the SSI varies to that described in the documents referred to in condition B1<del>Within twelve months of the commencement of construction</del>, or as otherwise agreed to by the Planning Secretary, the Proponent shall development and submit a <b>Biodiversity Offset Package</b> for the approval of the <del>Planning Secretary</del> within <b>12 months of the commencement of construction</b>. The Package shall detail how the ecological values lost as a result of the SSI will be offset. The Package shall be developed in consultation with the <b>EESG</b> and the <b>Hunter LLS</b> and shall include, but not necessarily be limited to:</div><div><div>a) the objectives and biodiversity outcomes to be achieved;</div><div>b) confirmation of the extent (in hectares), types and condition of the native vegetation communities (including SEPP 14 wetlands) and flora and fauna habitat to be lost or degraded as a result of the final design of the SSI, including consideration of the indirect impacts on adjacent retained vegetation and impacts caused through weed invasion, hydrological changes and potential edge effects;</div><div>c) a process for addressing and incorporating offset measures arising from changes in biodiversity impacts (where these changes are generally consistent with the biodiversity impacts identified for the SSI in the documents listed under conditions B1(a) to B1(c) inclusive from –<div><div>i. changes to the footprint due to design changes,</div><div>ii. changes to predicted impacts as a result of changes to mitigation measures, and</div><div>iii. identification of additional species/specimens and/or habitat during pre-clearing surveys, construction or the establishment of ancillary facilities);</div></div></div><div>d) a statement of the methodology used to determine the offsets required;</div><div>e) details of the final suite of the biodiversity offset measures selected and secured with consideration of the Biodiversity Offset Strategy (as set out in Appendix G of the document referred to in condition B1 (c);</div><div>f) justification for the application of any Tier 2 and Tier 3 outcomes;</div><div>g) the final selected means of securing the biodiversity values of the offset package in perpetuity;</div><div>h) the management and monitoring requirements for compensatory habitat works (excluding biobanking sites) and other biodiversity offset measures proposed to ensure the outcomes of the Package are achieved including –<div><div>i. the monitoring of the condition of species and ecological communities at offset locations (excluding biobanking sites),</div><div>ii. the methodology for the monitoring program(s), including the number and location of offset monitoring sites and the sampling frequency at these sites, and</div><div>iii. provisions for annual reporting of the monitoring results for a specified period of time as determined in consultation with the <b>EESG</b>; and</div></div></div><div>i) timing and responsibilities for the implementation of the provisions of the Package.</div></div><div><div><div><div><div><del>In the event that the extent, type or condition of native vegetation communities or flora and fauna habitat to be lost or degraded as a result of the SSI varies to that described in the biobanking proposal in the documents referred to in condition B1, the variances shall be assessed using the Biobanking Assessment Methodology and the Biobanking credit tool re-run. The revised Biobanking Credit Calculator files shall be submitted as part of the Biodiversity Offset Package.</del></div></div></div></div><div>Land offsets shall be consistent with the <i>Principles for the Use of Biodiversity Offsets in NSW and the Interim Policy on Assessing and Offsetting Biodiversity Impacts of Part 3A, State Significant Development (SSD) and State Significant Infrastructure (SSI) Projects</i> (OEH, 2011). Any land offset shall be enduring and be secured by a conservation mechanism which protects and manages the land in perpetuity. Where land offsets cannot solely achieve compensation for the loss of affected biodiversity, additional measures shall be provided to collectively deliver a biodiversity offset in accordance with the</div></div></div></div></div></div>	Compliant	<div><div><div>Biodiversity Development Assessment Report Waiver Request (Jacobs, date 21/09/2021) submitted alongside modification proposal. Waiver request concluded that the site is a highly disturbed area with negligible biodiversity value.</div><div>Request to waive requirement for BDAR under s.7.9(2) of the Biodiversity Conservation Act 2016 – Hexham Train Facility Mod 2 – Depot Relocation and Wagon Stowage (SSI-6090-Mod-2) (DPE, ref. DOC22/395891-13, date 10/06/2022) approving that the application did not require a BDAR was provided.</div></div></div>	





Condition Number	Condition	Compliance Status	Evidence	Recommended Action
	<p>Interim Policy on Assessing and Offsetting Biodiversity Impacts of Part 3A, State Significant Development (SSD) and State Significant Infrastructure (SSI) Projects (OEH, 2011) and to provide a positive biodiversity outcome for the region.</p> <p>Where possible, priority shall be given to securing offset sites as near to the location of the impact/loss as possible to assist with the preservation of the specific endemic community of the area and assure that the ecological and amenity benefits of retaining endemic vegetation remain within the locality.</p> <p>Should a conservation agreement under the National Parks and Wildlife Act 1974 not be considered a viable alternative, then the Proponent must ensure that any offset arrangement it enters into <del>in relation to the Northern and Southern offset sites</del> must provide a provision for in-perpetuity conservation title on the land and a monetary contribution sufficient to carry out rehabilitation and monitoring actions pursuant to this consent and any actions outlined under a Vegetation Management Plan. This may be the subject of a Planning Agreement within the meaning of section 93F of the Environmental Planning and Assessment Act 1979. Upon execution of the Planning Agreement, or other conservation mechanism to the satisfaction of the <b>EESG</b>, the Proponent shall inform the <b>Secretary</b> on the outcomes of such an agreement.</p> <p><del>Where monitoring referred to in condition C3 indicates biodiversity outcomes are not being achieved, remedial actions (such as improved land management measures or changes to the size and/or location of the offset area) shall be developed in consultation with the EESG. Such remedial actions shall be documented under an addendum to the Biodiversity Offset Package and the addendum shall be submitted for the approval of the Secretary prior to the implementation of the addendum.</del></p> <p>Should updates to the Nest Box Plan be required in accordance with condition E7, updates shall be undertaken in consultation with EESG.</p>			
C5	The Proponent shall ensure that groundwater dependent ecosystems outside the project footprint are not adversely affected by the design, construction and operation of the SSI.	Compliant		<p>TSF design included sealing the surface in active areas with clay to separate activities from groundwater. Mod 2 works comprised enclosed buildings with sealed floors. Depot earthworks also did not intercept groundwater. A copy of a PowerPoint slide showing areas that had been sealed with clay to separate activities from groundwater was provided (Hexham Initial Spill Response: Channels and Basins, no date).</p>
Hydrology and Hydrogeology				
C6	Except as may be provided by an EPL, the SSI shall be constructed and operated to comply with section 120 of the Protection of the Environment Operations Act 1997 which prohibits the pollution of waters.	Compliant		<p>The site is not regulated by an EPL.</p> <p>Annual and quarterly monitoring was undertaken by GHD. Monitoring reports were sighted for the audit period.</p> <p>Exceedances of adopted criteria were noted in all reports for surface water (pH, turbidity, TSS, iron, aluminium, copper, lead, nickel, zinc, nitrogen, total kjeldahl nitrogen, phosphorus, TRH and coliforms) and groundwater (pH, EC, aluminium, cadmium, copper, chromium, lead, arsenic, nitrogen, TRH and coliforms), however annual assessments did not determine these to be pollution from the SSI.</p> <p>No reportable incidents occurred during the audit period.</p>
Stormwater Management				
C7	<p>The SSI shall be designed, and employ surface water management techniques, such that runoff volumes, rates and pollutant loads are maintained as far as practicable to pre-construction levels and there are no adverse effects to adjoining lands as a result of runoff.</p> <p>The stormwater design shall be undertaken in consultation with the OEH and City of Newcastle, and shall have consideration of the <i>Newcastle Development Control Plan 2012</i>.</p>	Compliant		<p>The 2018 Audit confirmed compliance with this condition in relation to the design and construction of the SSI. Construction works undertaken during this audit period relate to a modification to the existing development and is managed in accordance with the site surface water management plan. Modelling undertaken for the Section 5.25 Modification to SSI-6090 (formerly MP07_171): Hexham Long Term Train Support Facility – Ancillary Depot and Wagon Storage (Ethos Urban, date 8/04/2022) showed that stormwater impacts related to the modification would be minor. The Stormwater Management Plan (Aurizon, Revision 12, date 9/08/2024) includes Modification 2.</p> <p>During the site inspection, surface water run-off was observed to be managed in accordance with the system, and no evidence of erosion, sedimentation or contamination was observed.</p>



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
C8	<p>The SSI shall be designed and constructed to incorporate operational stormwater management measures, including (but not limited to):</p> <ul style="list-style-type: none"><li>a) areas of high sediment, areas of storage and use of oil and grease and areas containing nutrient loads (including the wash bays, provisioning sheds and servicing sheds) shall be separated from the general site stormwater system through the use of separate drainage systems, bunds and hardstands and subject to separate discharge to trade waste or re-use in the wash down bays;</li><li>b) where connection to the reticulated sewer system is identified to not be feasible, subject to justification based on further investigations, wastewater from the administration buildings, toilets, showers, lunch rooms, etc. shall be managed through a water treatment plant and be disposed via irrigation into existing agricultural pasture land.</li><li>c) site stormwater shall be directed into a drain on the western boundary of the SSI site and directed into one of three stormwater detention basins for treatment of suspended sediments and nutrients through floating wetlands, prior to its offsite discharge. This stormwater system shall be capable of treating at least a 1% AEP stormwater event; and</li><li>d) access roads shall be provided with road side swales to provide treatment through flow attenuation and entrainment of suspended sediments.</li></ul>	Compliant	<p>The 2018 Audit confirmed compliance with this condition in relation to the construction of the SSI. Construction works undertaken during this audit period relate to a modification to the existing development and is managed in accordance with the site surface water management. Modelling undertaken for the Section 5.25 Modification to SSI-6090 (formerly MP07_171): Hexham Long Term Train Support Facility – Ancillary Depot and Wagon Storage (Ethos Urban, date 8/04/2022) showed that stormwater impacts related to the modification would be minor. The Stormwater Management Plan (Aurizon, Revision 12, date 9/08/2024) includes Modification 2.</p> <p>During the site inspection, surface water run-off was observed to be managed in accordance with the system, and no evidence of erosion, sedimentation or contamination was observed. The majority of potential hydrocarbon and chemical pollution sources are isolated from the surface water run-off system via bunds and/or rooves.</p>	
C9	<p>Prior to the commencement of construction, the Proponent shall, in consultation with the <b>Water Group</b> and <b>EESG</b>, prepare a <b>Stormwater Management Plan</b> and submit the plan for the approval for the Planning Secretary at least one month prior to the commencement of construction of the SSI. The Plan shall include but not necessarily be limited to:</p> <ul style="list-style-type: none"><li>(a) final details of operational stormwater management measures to be implemented for the SSI based on detailed design, including identification of offsite discharge locations;</li><li>(b) if required, identification of the water quality standards to which wastewater from the wastewater treatment plant would be treated to prior to its irrigation. The plan shall demonstrate that the water quality criteria to which the waste water would be treated to is suitable for irrigation purposes based on the land capability of the irrigation site (including nutrient loads, pH and salinity), considering existing baseline conditions and cumulative inputs from other irrigation sources to the site;</li><li>(c) identification of the water quality standards to which stormwater from the three stormwater detention basins would be treated to prior to offsite discharge with consideration of the receiving environment and relevant water quality standards such as Managing Urban Stormwater: Environmental Targets (DECC &amp; CMA, October 2007); and</li><li>(d) monitoring, review and maintenance procedures to assess and maintain the operational stormwater integrity and performance of the SSI consistent with the requirements of condition C19.</li></ul> <p>Nothing in this condition precludes the Proponent from updating the Stormwater Management Plan presented in Appendix E (Stormwater Management Plan) or the document referred to in condition C19 to meet the requirements of this condition.</p> <p><b>Prior to construction of the Turning Angle Works, the Proponent must provide a copy of the revised plan including the Turning Angle Works to the Environmental Representative for approval. The ER may approve minor updates to the plan without further consultation with public authorities.</b></p>	Compliant	<p>The 2018 Audit confirmed compliance with this condition relating to the construction of the SSI.</p> <p>Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the Soil and Water Management Plan (S&amp;WMP; Aurizon, Revision 1, date 12/09/2022) was sighted. The current (operational) Stormwater Management Plan (Aurizon, Revision 12, date 9/08/2024), includes the requirements of this condition as follows:</p> <ul style="list-style-type: none"><li>A) Section 2.0 and Section 3.3</li><li>B) Section 5.2</li><li>C) The Plan refers to the Surface and Groundwater Monitoring Plan for this requirement (Aurizon, Revision 12, date 9/08/2024, Section 2.3)</li><li>D) Section 5.0 and Section 6.2</li></ul> <p>During the site inspection, surface water run-off was observed to be managed in accordance with the system, and no evidence of erosion, sedimentation or contamination was observed. The majority of potential hydrocarbon and chemical pollution sources are isolated from the surface water run-off system via bunds and/or rooves.</p>	
Groundwater				
C10	<p>Excavation activities near the Hexham Swamp Nature Reserve shall be undertaken in a manner which prevents the drawdown of groundwater within the Nature Reserve to a level which results in desaturation of acid sulfate soils within the Nature Reserve.</p>	Not Triggered	<p>The Modification 2 construction area is located approximately 700m from the Hexham Swamp. No significant excavation occurred for Modification 2 works.</p>	
C11	<p>All drainage structures, including but not limited to pits, pipes, cess drains, sediment basins and detention basins, shall be designed and constructed so as to minimise long term connection with groundwater. The stormwater system components, including but not limited to detention basins and floating wetlands, shall be designed and constructed to ensure that there is no permanent interception of, and/or connection with groundwater.</p>	Not Triggered	<p>No new basins created as part of Modification 2 construction.</p>	
Flooding				



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
C12	The SSI shall be designed and constructed so that it does not result in flooding impacts greater than those predicted in the documents referred to in condition B1. The cumulative impacts of the SSI and the proposed ARTC Hexham Relief Roads shall be considered in these requirements.	Compliant	<p>The Flood Assessment Report (BMT, date 18/03/2022) stated that potential flood impacts relating to the Modification 2 proposal were negligible.</p> <p>Cumulative impacts of the SSI and proposed ARTC Hexham Relief Roads were considered in the Hexham Train Support Facility Flood Impact Assessment (BMT, August 2012).</p>	
C13	All buildings or structures below the 10% AEP level shall be constructed of flood compatible materials.	Compliant	<p>As stated in Construction Compliance Report 1 (Aurizon, Revision 1, date 1/06/2023), all Hexham Depot buildings and structures below the 10% AEP have been constructed out of flood compatible materials.</p> <p>During the site inspection, the depot structure was also noted to be located on higher ground than the Combined Maintenance Facility.</p>	
C14	Electrical supply and signalling locations associated with the operation of the SSI shall be elevated above the 1% AEP flood level and include a freeboard of 250 millimetres.	Compliant	<p>As stated in Construction Compliance Report 1 (Aurizon, Revision 1, 1/06/2023) and CCR 2 (Aurizon, Revision 1, 31/07/2023), all Hexham Depot infrastructure and other TSF associated electrical supply and signalling is above the 1% AEP inclusive of 250mm freeboard.</p>	
C15	<p>The Proponent shall prepare a Flood Emergency Management Plan which sets out the management requirements and procedures for managing flood risks during the construction and operation of the SSI, including flood recovery measures. The Plan shall be prepared in consultation with City of Newcastle and EESG and be submitted to the Planning Secretary at least one month prior to the commencement of construction, or as otherwise agreed by the Planning Secretary.</p> <p>Prior to construction of the Turning Angle Works, the Proponent must provide a copy of the revised plan including the Turning Angle Works to the Environmental Representative for approval. The ER may approve minor updates to the plan without further consultation with public authorities.</p>	Compliant	<p>Hexham TSF Flood Emergency Management Plan (FEMP) (Aurizon, Revision 11, date 08/08/2024), shows that Revision 10 was created as an update to include Modification 2 works on 1 February 2023, however, construction commenced 9 December 2022. DPIE email (from: no-reply@majorprojects.planning.nsw.gov.au, to: Harry Egan, subject: [EXTERNAL SENDER] Hexham Train Facility - Flood Emergency Management Plan, date 23/03/2023) was provided acknowledging receipt of FEMP.</p> <p>Aurizon advised that it had proposed to DPIE that a separate construction FEMP was not needed, as the responses are the same as the existing OEMP and it would add confusion.</p> <p>No flood events occurred during the audit period, therefore, no flooding review reports were triggered.</p>	
C16	Within 12 months of the commencement of construction, or as otherwise agreed by the Director-General, the Proponent shall consult with the landowner of Lot 100, DP 1044020, to develop feasible and reasonable measures for managing and/or mitigating flood impacts associated with the construction of the SSI to the residence located on the property. The Proponent shall forward a statement of agreed measures, including a timetable for implementation, to the Director-General within one month of reaching an agreement with the landowner. If there is a dispute regarding the proposed flood management measures, either party may refer the matter to the Director-General for resolution whose decision shall be final.	Not Triggered	<p>Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.</p>	
Watercourse Crossings				
C17	All temporary and permanent watercourse crossings shall be designed in consultation with the NoW, and with the DPI (Aquaculture and Fisheries) where the crossing has the potential to impact on fish passage. Where feasible and reasonable, the crossings shall be consistent with the NoW's <i>Guidelines for Controlled Activities and Policy and Guidelines for Fish Friendly Waterway Crossings</i> (NSW Fisheries, 2004) and <i>Policy for and Guidelines for Design and Construction of Bridges, Roads, Causeways, Culverts and Similar Structures</i> (NSW Fisheries, 1999).	Not Triggered	<p>No watercourse crossings required as part of Modification 2 works.</p>	
C18	The Proponent shall ensure that the upgrade of the Purgatory and Middle Creek crossings are designed to provide an equivalent hydraulic capacity to the existing culverts, not reduce the existing waterway area and to withstand heavy vehicle movements associated with the construction and operation of the SSI. The Proponent shall liaise with the City of Newcastle and the DPI in regards to the design and construction of the crossings.	Not Triggered	<p>Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.</p>	
Surface Water and Groundwater Monitoring Program				



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
C19	<p>A Surface Water and Groundwater Monitoring Program shall be prepared and implemented to monitor impacts on surface water and groundwater quality and hydrology. The Program shall be developed in consultation with the EPA, the Water Group and Hunter LLS and shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"><li>a) identification of works and activities during construction of the SSI, including emergencies and spill events, that have the potential to impact on surface and groundwater water quality and groundwater depths and flows;</li><li>b) identification of surface and groundwater monitoring locations which are representative of the potential extent of impacts from the construction and operation of the SSI on water quality and groundwater depths and flows (including watercourses, waterbodies, wetlands, drainage swales and licensed discharge points);</li><li>c) a description of the parameters (including physico-chemical) and standards against which any changes to water quality will be monitored and assessed, having regard to the principles of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 (ANZECC, 2000);</li><li>d) details of representative background monitoring of surface and groundwater quality parameters and groundwater depths and flows undertaken to date (or required to be undertaken) to establish baseline conditions;</li><li>e) identification of 'trigger points' for further investigation or action to be taken;</li><li>f) identification of the frequency and methodology of monitoring during background, construction and operation monitoring periods;</li><li>g) details on how the results of monitoring would be recorded;</li><li>h) details of how interactions with the ARTC Hexham Relief Roads Project and potential cumulative impacts would be monitored and managed;</li><li>i) contingency and ameliorative measures in the event that adverse impacts to surface waters and groundwater are identified consequent to the construction and/or operation of the SSI; and</li><li>j) methodology for reporting of the monitoring results to the Department and EPA.</li></ul> <p>Monitoring shall be undertaken in accordance with the requirements of the approved Construction Soil and Water Management Plan required under Condition E 63(d) and Operation Environment Management Plan required by condition F2.</p> <p>The Program shall be submitted to the Planning Secretary for approval at least one month prior to the commencement of construction of the SSI, or as otherwise agreed by the Planning Secretary.</p> <p>Prior to construction of the Turning Angle Works, the Proponent must provide a copy of the revised plan including the Turning Angle Works to the Environmental Representative for approval. The ER may approve minor updates to the plan without further consultation with public authorities.</p>	Non-Compliant (NC 1)	<p>Modification 2 construction commenced on 9 December 2022.</p> <p>An email confirming DPE receipt (from: <a href="mailto:reply@majorprojects.planning.nsw.gov.au">no-reply@majorprojects.planning.nsw.gov.au</a>, to: Harry Egan, subject: Hexham Train Facility – Hexham Water Monitoring Plan, date 23/03/2023) of Revision 11 of the Surface and Groundwater Monitoring Plan (SGMP), dated 1 February 2023 was provided. Email confirming receipt of Hexham TSF Depot Relocation Soil and Water Management Plan (S&amp;WMP), dated 12/09/2022. The SGMP version provided for the IEA (Aurizon, Revision 12, date 09/08/2024), addresses each of the requirements listed, as follows:</p> <ul style="list-style-type: none"><li>A) Section 1.2</li><li>B) Section 2.1</li><li>C) Section 2.3</li><li>D) Section 2.3</li><li>E) Section 2.3</li><li>F) Section 2.0</li><li>G) Section 3.1</li><li>H) Section 1.4</li><li>I) Section 3.2</li><li>J) Section 3.1</li></ul> <p>The S&amp;WMP also addresses the above requirements.</p> <p>Annual Water Monitoring reports for 2021 (GHD, date 2/03/2022), 2022 (GHD, date 21/02/2023), and 2023 (GHD, date 8/03/2024) were provided. Monitoring was completed in accordance with SGMP requirements, with some exceptions as reported by Aurizon in the construction and operational compliance report relating to the audit period. Non-compliances relate to equipment malfunctions and one deviation from the sampling schedule in 2023. Aurizon has engaged with the contractor regarding corrective actions to address non-compliances (email from Maranciak, L. to Egan, H., date 05/06/2024, RE: Aurizon Hexham Compliance Report Actions). Corrective actions include hire of two sets of equipment (in case one is faulty) and hire commencement 2 days before site sampling to ensure received on time, checked and allows time for a replacement to be couriered if necessary. For holding time issues on Friday sampling events, an alternate laboratory option has been identified, though the contractor noted this may impact results.</p>	<p><b>NC Recommendation 1:</b> Monitor the effectiveness of corrective actions implemented by the contractor (GHD) to address equipment malfunction and sample holding time issues that impacted the Water Monitoring Program compliance.</p>
Acid Sulfate Soils				
C20	<p>The Proponent shall ensure that all acid sulfate soils and acid generating material excavated on site is disposed offsite in an appropriately licensed landfill facility, unless proposed to be re-used on site. Any acid sulphate soils or acid generating material to be re-used on site shall be temporarily stored and treated on site to required standards in an appropriately lined and bunded storage area located above the 1% AEP flood level. Procedures for the treatment, temporary storage and monitoring of these materials shall be in accordance with the Acid Sulfate Soil Management Plan required to be prepared under condition E63 (d) (xi) of this approval.</p>	Not Triggered	<p>As stated in CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023), no acid sulfate soils were encountered during Mod 2 construction.</p> <p>GHD completed soil characterisation works prior to construction, the results of which indicated that no PASS was present (Hexham Depot – Acid Sulfate Soil Testing, GHD, date 28 November 2022).</p>	
C21	<p>No acid sulfate soils or acid generating material shall be permanently stored on site, unless the material has been treated and validated as neutralised and the material is stored above the 1% AEP flood level and protected by appropriate erosion and sediment control measures, and as agreed to by the EPA and the Director-General.</p>	Not Triggered	<p>As stated in CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023), no acid sulfate soils were encountered during Mod 2 construction.</p>	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
Acid sulfate soil management is detailed in the Construction Contamination Management Plan (CCMP; Aurizon, Revision 1, 10/08/2022).				
Heritage				
Aboriginal Heritage				
C22	Prior to the commencement of construction the Proponent shall liaise with Registered Aboriginal Stakeholders on the conclusions and recommendations of the revised heritage assessments presented in Appendices J and K of the document referred to in condition B1 (c) of this approval, in relation to the sites identified as HS1 and HS2. Prior to the commencement of construction the Proponent shall submit evidence to the Director-General and OEH that the final mitigation approach for sites HS1 and HS2 (including opportunity for salvage or agreement that no further mitigation is required) has been determined in consultation with Registered Aboriginal Stakeholders.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Historic Heritage				
C23	<p>Prior to the commencement of pre-construction and construction activities in the vicinity of the junction of the Minmi to Hexham Railway and the Great Northern Railway, the Proponent shall prepare an Archaeological Assessment in accordance with the Heritage Council's Archaeological Assessments Guideline (1996). Should the assessment identify areas of potential archaeological resources, the Proponent shall further:</p> <p>a) prepare a Historic archaeological investigation program using a methodology prepared in consultation with the OEH (Heritage Branch), and to the satisfaction of the Director-General. This work should be undertaken by an archaeological heritage consultant as agreed by the Heritage Branch and approved by the Director-General. The nomination for the Excavation Director shall demonstrate ability to comply with the Heritage Council's Criteria for the Assessment of Excavation Directors (July 2011);</p> <p>b) report on the results of the Historic archaeological investigation program, including recommendations (such as for further archaeological work), in consultation with the Heritage Branch and to the satisfaction of the Director-General, and shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"><li>consideration of measures to avoid or minimise disturbance to archaeology, where archaeology of non-Aboriginal archaeological significance is found to be present,</li><li>where impacts cannot be avoided, recommendations for any further investigations for archaeology of historical archaeological significance, and</li><li>management and mitigation measures to ensure there are no additional impacts due to pre-construction and construction activities; and</li></ul> <p>c) undertake any further archaeological excavation works recommended by the results of the Historic archaeological investigation program.</p> <p>Within 12 months of completing the above work, unless otherwise agreed by the Director-General, the Proponent shall submit a report containing the findings of the excavations, including artefact analysis, and the identification of a final repository for finds, prepared in consultation with the Heritage Branch and to the satisfaction of the Director-General. A copy of the final report shall be submitted to the Heritage Council library.</p>	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Hazards and Risks				
C24	<p>Dangerous goods, as defined by the Australian Dangerous Goods Code, shall be stored and handled strictly in accordance with:</p> <p>a) all relevant Australian Standards;</p> <p>b) for liquids, a minimum bund volume requirement of 110% of the volume of the largest single stored volume within the bund; and</p> <p>c) the <i>Environment Protection Manual for Authorised Officers: Bunding and Spill Management</i>, technical bulletin (EPA, 1997).</p> <p>In the event of an inconsistency between the requirements listed from (a) to (c) above, the most stringent requirement shall prevail to the extent of the inconsistency.</p>	Compliant	<p>Bulk fuel and oil tanks are double skinned. Underground diesel pipe to yard provisioning location is double skinned with leak detection. Above ground pipework is single skinned. Other packaged chemicals (i.e. drums and IBCs) were stored in covered and bunded locations, with the exception of several drums stored near the DAF Plant, outside the bund (refer to site photographs). At the CMF and DAF Plant, any major loss of containment would be contained with the large service pits inside the CMF.</p> <p>Safety Data Sheets (SDS) are maintained on ChemWatch. Spill kits were observed in chemical storage and handling areas.</p> <p>Pipework connected to the diesel ASTs is single skinned. Majority of pipework is steel pipe, however there are flexible braided pipe sections between the bulk tanks, which is to allow for differential settlement. The pipework at the diesel tanks is not bunded. Aurizon noted that the bulk diesel tanks were due for 10-year inspection but was unable to provide clarification on the required preventative maintenance and inspection frequency for the braided sections of pipe. A similar</p>	<p><b>OFI 1:</b> Ensure all chemical drums are stored in appropriately bunded areas.</p> <p><b>OFI 2:</b> Demonstrate that the recommendations made in the Hazardous Chemical and Dangerous Goods Storage Review (Occupational Hygiene Consulting Pty Ltd, November 2021) have been addressed.</p> <p><b>OFI 3:</b> Determine the required preventative maintenance, inspection and replacement frequencies for the braided sections of pipe at the bulk diesel storage area and southern yard provisioning area and add these to the Aurizon preventative maintenance system.</p>





Condition Number	Condition	Compliance Status	Evidence	Recommended Action
			<p>braided pipe is also part of the diesel refuelling station at the southern yard provisioning area.</p> <p>The 2018 IEA (EMM, 2019) '<i>identified risk for potential leaks from diesel storage infrastructure, in particular from pipework connections where there is no bunding installed</i>' and recommended a Dangerous Goods Storage Review. The Hazardous Chemical and Dangerous Goods Storage Review was completed by Occupational Hygiene Consulting Pty Ltd in November 2021. The six bulk diesel storage containers storage locations were reviewed for placarding, bund capacity, labelling and segregation compliance against AS1940:2017 and considered compliant. It is noted that the report did not comment on secondary containment of pipework. A number of recommendations to address compliance with statutory requirements relevant to the storage of Dangerous Goods were made. Evidence of completion of these recommendations was not provided. At least one recommendation was observed during the site inspection to have not been implemented (recommendation item 94 – placarding of combustible liquids).</p>	
Waste Management				
C25	The Proponent shall ensure that all liquid and/or non-liquid waste generated on the site is assessed and classified in accordance with Waste Classification Guidelines (DECCW, 2009), or any future guideline that may supersede that document, and that it is appropriately handled.	Compliant	<p>During the site inspection, waste was generally observed to have been segregated and placed into appropriate bins. Dedicated oily rag bins were not observed in the Provisioning Facility and CMF, and it was unclear if these were being appropriately segregated from general waste in accordance with the Waste Management Plan (WMP). Site representatives noted that few waste oily rags were generated.</p> <p>Remondis classifies and disposes of waste on behalf of Aurizon. Waste tracking and breakdowns of waste categories is provided in a monthly report. The January 2022 (Remondis, date 21/02/2022), December 2022 (Remondis, date 25/01/2023), July 2023 (Remondis, date 29/08/2023) and March 2024 (Remondis, date 20/04/2024) reports were provided.</p> <p>During the site inspection, Aurizon access to the Remondis online client portal was sighted.</p>	<b>OFI 4:</b> Ensure that oily rags are placed in dedicated bins as per the Waste Management Plan (WMP), or update the WMP to reflect current site practice for collection and disposal of oily rags.
C26	The Proponent shall maximise the reuse and/or recycling of waste materials generated on site as far as practicable, to minimise the need for treatment or disposal of those materials off site.	Compliant	<p>Remondis waste tracking reports showing percentages of waste redirected from landfill were provided for review.</p> <p>Aurizon undertakes scrap metal recycling, water recycling at CMF, Remondis also sorts waste materials for recycling on an opportunistic basis.</p>	
C27	The Proponent shall not cause, permit or allow any waste generated outside the site to be received at the site for storage, treatment, processing, reprocessing, or disposal on the site, except as expressly permitted by a licence under the Protection of the Environment Operations Act 1997, if such a licence is required in relation to that waste. This condition is independent of the operation of the Brancourts facility and Sewerage Treatment Plant.	Compliant	<p>As stated in CCR 1 (Aurizon, Revision 1, date 1/06/2023), CCR 2 (Aurizon, Revision 1, date 31/07/2023), no waste was received from offsite during the audit period. This was confirmed to be the case for the time outside of construction compliance reporting periods during the site inspection.</p>	
C28	All waste materials removed from the site shall be appropriately tracked and shall only be directed to a waste management facility or premises lawfully permitted to accept the materials	Compliant	<p>Remondis classifies and disposes of waste. Waste tracking and breakdowns of waste categories is provided in a monthly report. The January 2022 (Remondis, date 21/02/2022), December 2022 (Remondis, date 25/01/2023), July 2023 (Remondis, date 29/08/2023)</p>	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
			and March 2024 (Remondis, date 20/04/2024) reports were provided. Remondis also maintains tracking records, which were accessed by Aurizon during the site inspection.	
Utilities and Services				
C29	Utilities, services and other infrastructure potentially affected by construction of the SSI shall be identified prior to commencement of that part of construction which affects the item, to determine requirements for access to, diversion, protection, and/or support. Consultation with the relevant owner and/or provider of services that are likely to be affected by the SSI shall be undertaken to make suitable arrangements for access to, diversion, protection, and/or support of the affected infrastructure as required. The Proponent shall ensure that disruption to any service is minimised and shall be responsible for advising impacted service recipients prior to any planned disruption of service. The cost of any such arrangements shall be borne by the Proponent, unless otherwise agreed with the utility/service provider.	Not Triggered	No infrastructure was identified as likely to be impacted as part of the Modification 2 works. Consultation undertaken during the Hexham Depot EA is detailed in the Section 5.25 Modification to SSI-6090 (formerly MP07_171): Hexham Long Term Train Support Facility – Ancillary Depot and Wagon Storage (Ethos Urban, date 8/04/2022).	
C30	Utilities, services and other infrastructure owners to be consulted shall include, but not be limited to, the Hunter Water Corporation, Jemena, Ausgrid, Optus and Brancourts.	Not Triggered	Consultation was not triggered as part of the Modification 2 construction for utilities and services.	
Property and Business Impacts				
C31	Subject to agreement with the relevant property owner, any damage caused to property or infrastructure as a result of the SSI shall be rectified or the property owner compensated, within a reasonable timeframe, with the costs borne by the Proponent. This condition is not intended to limit any claims that the property owner may have against the Proponent.	Compliant	CCR 1 (Aurizon, Revision 1, date 1/06/2023), CCR 2 (Aurizon, Revision 1, date 31/07/2023), OCR 2022 (Aurizon, Revision 2, date 24/04/2023) and OCR 2023 (Aurizon, Revision 1, date 15/03/2024) do not include any reports of damage caused to property or infrastructure. Shared infrastructure with property owner relevant to the Depot works & access comprises access roads and fencing. No damage was advised during the audit period, and no damage was observed during the site inspection.	
Access				
C32	The Proponent shall not affect or alter any existing access routes currently in place between the OEH (NPWS) and landowners to the Hexham Swamp Nature Reserve, unless otherwise agreed to by the NPWS and landowners.	Compliant	CCR 1 (Aurizon, Revision 1, date 1/06/2023), CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no impact was proposed to occur to existing access routes between OEH and landowners. Bird watchers access gate was left unlocked, and signage was observed showing access route to bird watching area during the site inspection.	
C33	The Proponent shall provide a new private access track (consistent with that described in the document referred to in condition B1 (c) to service properties located to the west and south of the SSI. The private access track shall utilise existing track footprints where practical.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
C34	The SSI shall be designed so as not to preclude future pedestrian access across the site from the Hexham Railway Station to future industrial uses on the adjoining site.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
C35	The SSI shall be designed and constructed with the objective of minimising adverse changes to existing access arrangements and services for other transport modes (including pedestrians and cyclists) and, where feasible and reasonable, facilitate an improved level of access and service to other transport modes comparable to the existing situation.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
C36	The SSI shall be designed to not preclude the location of identified future proposals, including the future Richmond Vale Rail Trail and the F3 Freeway to Raymond Terrace upgrade. In particular, any changes to the F3 Freeway to Raymond Terrace upgrade concept design, necessitated by the SSI, shall be at the Proponent's cost except where those changes are as a result of works outside of the F3 Freeway to Raymond Terrace footprint identified in B1.	Compliant	Modification 2 works have been constructed in accordance with the approved location.	
Lighting				





Condition Number	Condition	Compliance Status	Evidence	Recommended Action
C37	The Proponent shall ensure, where practicable, that all external lighting associated with the construction and operation of the SSI is mounted, screened and directed in such a manner so as not to create nuisance to residences. The lighting shall be the minimum level of illumination necessary and shall comply with the <i>Australian Standard AS 4282:1997 – Control of the Obtrusive Effects of Outdoor Lighting</i> and relevant Australian Standards in the series <i>AS/NZ 1158 – Lighting for Roads and Public Spaces</i> .	Not Triggered	No large external lights were included in the Modification 2 design, and construction works were completed during normal hours, so no night lighting was required.	
Landscaping				
C38	The Proponent shall undertake tree planting, where practicable, to screen views of the site from residences to the north and west of the site and from the viewpoints from the Pacific and New England Highways and the Hexham industrial/commercial area.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Community Contributions				
C39	The Proponent must ensure that any voluntary arrangement it enters into with the City of Newcastle, in relation to the provision of a monetary contribution or other material public benefit, which is to be applied to a public purpose, is the subject of a Planning Agreement within the meaning of section 93F of the EP&A Act. Upon execution of any Planning Agreement, the Proponent shall inform the Director-General on the outcomes of such an agreement.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Schedule D Community Information, Reporting and Auditing				
Community Information, Consultation and Involvement				
Community Involvement				
D1	<p>The Proponent shall prepare and implement a <b>Community Communication Strategy</b> for the SSI. The Strategy shall be designed to provide mechanisms to facilitate communication between the Proponent (and its contractors), the Environmental Representative, City of Newcastle and the local community (broader and local stakeholders) on the detailed design, construction and environmental management of the SSI. The Strategy shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"><li>a) identification of stakeholders to be consulted as part of the Strategy, including affected and adjoining landowners;</li><li>b) procedures and mechanisms for the regular distribution of information to stakeholders on the progress of the SSI and matters associated with environmental management;</li><li>c) procedures and mechanisms through which stakeholders can discuss or provide feedback to the Proponent and/or Environmental Representative in relation to the environmental management and delivery of the SSI;</li><li>d) procedures and mechanisms through which the Proponent can respond to any enquires or feedback from stakeholders in relation to the environmental management and delivery of the SSI; and</li><li>e) procedures and mechanisms that would be implemented to resolve any issues/disputes that may arise between parties on the matters relating to the environmental management and delivery of the SSI. This may include the use of an appropriately qualified and experienced independent mediator.</li></ul> <p>Key issues to be addressed in the Community Communication Strategy should include, but not necessarily be limited to:</p> <ul style="list-style-type: none"><li>a) traffic management (including construction access and construction vehicle management);</li><li>b) noise and vibration mitigation and management;</li><li>c) erosion, sedimentation and stormwater management;</li><li>d) surface and groundwater management;</li><li>e) air quality; and</li><li>f) construction scheduling and progress on construction activities.</li></ul> <p>The Proponent shall maintain and implement the Strategy throughout construction of the SSI. The Strategy shall be submitted to the <b>Planning Secretary</b> for approval at least one month prior to the commencement of construction, or as otherwise agreed to by the <b>Planning Secretary</b>.</p> <p><b>Prior to construction of the Turning Angle Works, the Proponent must provide a copy of the revised plan including the Turning Angle Works to the Environmental Representative for approval. The ER may approve minor updates to the plan without further consultation with public authorities.</b></p>	Compliant	<p>Modification 2 construction commenced on 9 December 2022. A letter confirming DPE and Planning Secretary approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the Community Communication Strategy (Aurizon, Revision 1, date 10/08/2022) was sighted. The plan addressed each of the requirements listed, as follows:</p> <ul style="list-style-type: none"><li>A) Table 3.2</li><li>B) Section 3.2.1</li><li>C) Section 8.2</li><li>D) Section 8.1</li><li>E) Section 8.2</li></ul> <p>The Community Communication Strategy includes several KPIs which were not reported on during the audit period. <b>This is considered an opportunity for improvement (OFI 5).</b></p> <p>Consultation was completed as part of the Response to Submission (Ethos Urban, date 22/07/2022). Submissions were received from DPIE, Newcastle City Council, Transport for NSW and community members.</p>	<b>OFI 5:</b> For future modifications, ensure that a system is implemented for tracking and reporting on Community Communication Strategy KPIs.
D2	<p>Prior to the commencement of construction, the Proponent shall ensure that the following are available for community complaints and enquiries for the duration of construction:</p> <ul style="list-style-type: none"><li>a) a 24 hour telephone number(s) on which complaints and enquiries about the construction and operation of the SSI may be registered; 22 NSW Government Department of Planning &amp; Infrastructure SSI 6090 MOD 1 determined 8 October 2019 SSI 6090 MOD 2 determined September 2022</li><li>b) a postal address to which written complaints and enquiries may be sent;</li><li>c) an email address to which electronic complaints and enquiries may be transmitted; and</li><li>d) a mediation system for complaints unable to be resolved.</li></ul>	Compliant	<p>Phone number, postal address, and email address included on Aurizon Hexham website page: <a href="https://www.aurizon.com.au/sustainability/environmental-management/hexham-train-support-facility-depot-relocation">https://www.aurizon.com.au/sustainability/environmental-management/hexham-train-support-facility-depot-relocation</a>.</p> <p>Section 8.2 of the Community Communication Strategy (Aurizon, Revision 1, date 10/08/2022), includes a process for escalation/ mediation.</p>	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
	<p>The telephone number, the postal address and the email address shall be published in newspaper(s) circulating in the local area both prior to the commencement of construction and prior to the commencement of operation. The above details shall also be provided on the website (links or dedicated pages) required by this approval.</p> <p>Nothing in this condition precludes the Proponent from incorporating the requirements of this condition into, or utilising, an existing complaints and enquiries procedure administered by the Proponent, provided it is demonstrated to meet the requirements of this condition.</p>			
D3	<p>The Proponent must prepare and implement a <b>Complaints Management System</b> consistent with <i>AS 4269 Complaints Handling</i> prior to the commencement of construction activities and must maintain the System for the duration of construction and for up to 12 months following completion of construction of the SSI. Information on all complaints received, including the means by which they were addressed and whether resolution was reached and whether mediation was required or used, must be maintained by the Proponent and included in a complaints register. The information contained within the System must be made available to the DirectorGeneral on request. Nothing in this condition precludes the Proponent from incorporating the requirements of this condition into, or utilising, an existing complaints management system administered by the Proponent, provided it is demonstrated to meet the requirements of this condition.</p>	Compliant	<p>Section 8.1 of the Community Communication Strategy (Aurizon, Revision 1, date 10/08/2022), includes a process for complaints management, which includes maintenance of a database of complaint details and actions taken. During the site inspection, the online complaints management database system called 'Aurizon Call Centre Log' was sighted. It was confirmed that information collected in the system met requirements and that no complaints were received for the Hexham site during the audit period.</p>	
Provision of Electronic Information				
D4	<p>A website providing information in relation to the SSI must be established before commencement of works and maintained for the duration of construction. Up-to-date information (excluding confidential commercial information) must be published before the relevant works commencing and maintained on the website or dedicated pages including:</p> <ul style="list-style-type: none"><li>a) information on the current implementation status of the SSI;</li><li>b) a copy of the documents listed in Condition B1 of this approval, and any documentation relating to any modifications made to the SSI or the terms of this approval;</li><li>c) a copy of this approval in its original form, a current consolidated copy of this approval (that is, including any approved modifications to its terms), and copies of any approval granted by the Minister to a modification of the terms of this approval;</li><li>d) a copy of each statutory approval, licence or permit required and obtained in relation to the SSI;</li><li>e) a current copy of each document required under the terms of this approval, which must be published before the commencement of any works to which they relate or before their implementation, as the case may be; and</li><li>f) a copy of the compliance reports required under Condition D5 of this approval.</li></ul> <p>Documents related to the construction of the project shall be maintained for a minimum of 24 months following the completion of construction of the Turning Angle Works.</p> <p>Documents related to the operation of the project must be maintained for the life of the project.</p>	Non-Compliant (NC 2)	<p>A copy of the CEMP (Aurizon, Revision 1, date 10/08/2022) was not available at <a href="https://www.aurizon.com.au/sustainability/environmental-management/hexham-train-support-facility-depot-relocation">https://www.aurizon.com.au/sustainability/environmental-management/hexham-train-support-facility-depot-relocation</a> on the 18 November 2024. All other documents listed were available on the website at the time of the audit.</p>	<p><b>NC Recommendation 2:</b> Ensure that a copy of the CEMP (Aurizon, Revision 1, date 10/08/2022) is uploaded to the project website.</p>
Compliance Tracking				
D5	<p>No later than 4 weeks before the commencement of construction, a <b>Compliance Monitoring and Reporting Program</b> prepared in accordance with the Compliance Reporting Requirements (Department 2018) must be endorsed by the ER and submitted to the Department.</p>	Non-Compliant (NC 3)	<p>Modification 2 construction commenced on 9 December 2022. A letter confirming DPE and Planning Secretary approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the Construction Environmental Management Plan (Revision 1, date 10/08/2022), which includes details of the Compliance Monitoring and Reporting Program, was provided. The CEMP compliance tracking section referenced and reflected the Compliance Reporting Post-Approval Requirements (PAR) (DPE 2020).</p>	<p><b>NC Recommendation 3:</b> Any CEMPs and compliance reporting for future developments must reference and reflect the Compliance Reporting table contained in Compliance Reporting PAR (DPE 2018), until such time as approval condition D5 and D5A are updated to enable the latest guideline version to be adopted.</p>
D5A	<p>Compliance reports of the SSI must be carried out in accordance with the <i>Compliance Reporting Requirements</i> (Department 2018). The Department must be notified of the commencement dates of construction and operation of the SSI in the pre-construction and pre-operational compliance reports.</p>	Non-Compliant (NC 4)	<p>The minimum frequency of compliance reporting set out in the Compliance Reporting Post-Approval Requirements (PAR) (DPE 2018) includes a Pre-Construction Compliance Report, which was not completed in relation to Mod 2 Depot Relocation. The Compliance Reporting PAR (DPE 2018) were replaced by the Compliance Reporting PAR (DPIE 2020), which, amongst other things, removed the pre-construction and pre-operation reporting requirement. However, unless the conditions are modified, Aurizon must still comply with existing conditions (including approvals subject to the Compliance Reporting PAR (December 2018)).</p>	<p><b>NC Recommendation 3:</b> Any CEMPs and compliance reporting for future developments must reference and reflect the Compliance Reporting table contained in Compliance Reporting PAR (DPE 2018), until such time as approval condition D5 and D5A are updated to enable the latest guideline version to be adopted.</p>



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
			<p>The Compliance Reporting PAR (DPIE 2020) were mistakenly adopted for the Depot Modification project, as per the approved CEMP, and therefore the pre-construction reporting requirement was not met for the development.</p> <p>This non-compliance was identified and reported in the following compliance reports:</p> <ul style="list-style-type: none"><li>CCR 1 (Revision 1, date 1/06/2023),</li><li>CCR 2 (Revision 1, date 31/07/2023),</li><li>OCR 2022 (Revision 2, date 26/04/2023) and</li><li>OCR 2023 (Revision 1, date 15/03/2024).</li></ul> <p>CCR 2 is also referred to as the Pre-Operations Compliance Report.</p>	
D5B	The construction compliance report must provide details of any review of, and minor amendments made to, the <b>CEMP</b> (which must be approved by the <b>ER</b> ), resulting from construction carried out during the reporting period.	Compliant	CCR 1 (Revision 1, date 1/06/2023) Table 4 and CCR 2 (Revision 1, date 31/07/2023) Table 4 indicate that no changes were made to the CEMP during the reporting periods.	
D5C	The Proponent must make each compliance report publicly available and notify the Department in writing when this has been done.	Non-Compliant (NC 5)	<p>As per D5 and D5A above, the Pre-Construction Compliance Report was not completed, and is therefore not available.</p> <p>Annual operational compliance reports for 2022 and 2023 are available on the Aurizon Hexham website, as well as two construction compliance reports for Mod 2 works. CCR 2 is also referred to as the Pre-Operations Compliance Report.</p>	<b>NC Recommendation 3:</b> Any CEMPs and compliance reporting for future developments must reference and reflect the Compliance Reporting table contained in Compliance Reporting PAR (DPE 2018), until such time as approval condition D5 and D5A are updated to enable the latest guideline version to be adopted.
D5D	The <b>Compliance Monitoring and Reporting Program</b> in the form required under Condition A30 of this approval must be implemented for the duration of construction and for a minimum of one (1) year following commencement of operation, or for a longer period as determined by the Planning Secretary based on the outcomes of independent audits and regular compliance reviews submitted through <b>Compliance Reports</b> . If staged operation is proposed, or operation is commenced of part of the SSI, the <b>Compliance Monitoring and Reporting Program</b> must be implemented for the relevant period of each stage or part of the SSI.	Non-Compliant (NC 6)	<p>Implementation of the compliance monitoring and reporting program is evidenced by:</p> <p>CCR 1 (Aurizon, Revision 1, date 1/06/2023), CCR 2 (Aurizon, Revision 1, date 31/07/2023), OCR 2022 (Aurizon, Revision 2, date 26/04/2023) and OCR 2023 (Aurizon, Revision 1, date 15/03/2024).</p> <p>Internal Compliance Audits: Hexham Annual Environmental Compliance Audit – 2023 (Aurizon, Revision 1, 21/03/2023) and Hexham Annual Environmental Compliance Audit – 2024 (Aurizon, Revision 1, 5/04/2024).</p> <p>Quarterly and Annual Groundwater Monitoring Reports</p> <p>Quarterly Waste Water Treatment Plan Reports.</p> <p>SHE Inspection Quarterly Reports (Aurizon, date 13/06/2023 and 28/06/2024).</p> <p>However, as per D5A above, as the Pre-Construction Compliance Report was not completed, performance against this condition is non-compliant.</p> <p>Note: there is no condition A30 included in the approval.</p>	<b>NC Recommendation 3:</b> Any CEMPs and compliance reporting for future developments must reference and reflect the Compliance Reporting table contained in Compliance Reporting PAR (DPE 2018), until such time as approval condition D5 and D5A are updated to enable the latest guideline version to be adopted.
Incident Reporting				
D6	The Department must be notified in writing to <a href="mailto:compliance@planning.nsw.gov.au">compliance@planning.nsw.gov.au</a> immediately after the Proponent becomes aware of an incident. The notification must identify the SSI (including application number and the name of the SSI), and set out the location and nature of the incident.	Compliant	<p>Seven environmental incidents occurred during the audit period, six of which related to small oil and coolant spills (Aurizon incident record numbers: 6785, 5116, 5357, 7540, 8880, and 13656), and one larger spill (15836). Based on incident records, all spills were contained and cleaned up.</p> <p>Aurizon determined that the incidents did not meet the definition of a notifiable incident. Aurizon also noted that</p>	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
			it does advise EPA “for information” if there are incidents which resulted in a release to ground.	
D7	The Proponent shall meet the requirements of the Director-General to address the cause or impact of any incident, as it relates to this approval, reported in accordance with condition D6, within such period as the Director-General may require.	Not Triggered	No notifiable incidents occurred during the audit period.	
Note	Note: Nothing in this approval removes the Proponent’s obligation under Section 148 of the Protection of the Environment Operations Act 1997 to notify the appropriate regulatory authority (as defined under Section 6 of the Protection of the Environment Operations Act 1997) where a pollution incident occurs in the course of the development so that material harm to the environment is caused or threatened	Note		
Schedule E Construction Environmental Management				
Biodiversity				
Clearing				
E1	The Proponent shall ensure that clearing of native vegetation and infilling of SEPP 14 Wetland No. 833 is limited to the minimal extent required for the construction and operation of the SSI, and no greater than 12 hectares (including SEPP 14 wetlands).	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
E2	The Proponent shall implement all mitigation measures as identified in the Construction Flora and Fauna Management Plan (condition E63 (b)), to minimise the potential for damage to native vegetation (particularly threatened species and endangered ecological communities and their habitat) not proposed to be cleared as part of the SSI, to ensure that there is no incursion into, or clearing of the vegetation.	Compliant	CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, 31/07/2023) stated that all control measures stated in Table 7 of the FFMP were implemented.  During the site inspection, photographs of the area before clearing were observed, noted to be predominantly grass/paddocks. No trees were removed.	
E3	The Proponent shall mark areas of endangered ecological communities and threatened species habitat not to be impacted by the SSI with flagging tape or similar prior to commencing construction to ensure that there is no incursion into or clearing of the areas.	Not Triggered	No EECs identified within the project boundary. As per the Section 5.25 Modification SSI 6090 (formerly MP07_0171) Report (Ethos Urban, date 8/04/2022), the site was considered to be a highly disturbed area with negligible biodiversity value prior to Modification 2 construction works.	
E4	Any areas temporarily disturbed during construction (including access tracks and compound sites) shall be rehabilitated to a standard equal to or better than the existing condition, as soon as feasible and reasonable following the completion of construction activities in the affected location. Replanting of affected vegetation shall be undertaken using locally occurring native species.	Compliant	As per CCR 2 (Aurizon, Revision 1, 31/07/2023), areas of disturbance have been rehabilitated.  No native vegetation was removed. The area around the new Depot and Warehouse was observed to be neat and landscaped.	
E5	The Proponent shall ensure that any coarse woody debris removed from the site, including timber from felled trees (particularly hollow bearing timber), shall be relocated to the Northern Offset site as identified in Appendix G of the document referred to in condition B1 (c) of this approval, for the enhancement of the ecological values of that site.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Pre-clearing Surveys				
E6	Prior to construction, pre-clearing surveys and inspections for threatened flora and fauna species and habitat features (including hollow bearing trees) shall be undertaken. The surveys and inspections, and any subsequent relocation of species, shall be undertaken under the guidance of a suitably qualified and experienced ecologist. The methodology for pre-clearance surveys shall be incorporated into the Construction Flora and Fauna Management Plan (condition E63(b)).  The Proponent is to undertake pre-clearing surveys prior to commencement of construction of the Turning Angle Works.	Compliant	Biodiversity Development Assessment Report Waiver Request (Jacobs, date 21/09/2021) concluded that the site is a highly disturbed area with negligible biodiversity value, and that the Modification 2 development works were not likely to have any significant impact on biodiversity value.  A field survey was undertaken as part of the Biodiversity Development Assessment Report Waiver Request. However, vegetation surveys were unable to be completed as there were no Plant Community Types present in the development site and hence vegetation zones could not be established. A habitat assessment	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
			was undertaken, which concluded that there was limited habitat in the development site for threatened species. For this reason, targeted habitat surveys were not undertaken.  Pre-clearing checklist (Attachment B) and Hollow Bearing Tree Inspection Checklist (Attachment D) sighted within Construction Flora and Fauna Management Plan (CFFMP; Aurizon, Revision 1, date 9/09/2022).	
E7	Should pre-clearing surveys reveal the need to remove tree hollows to construct and/or operate the SSI, the Proponent shall consider the need for the preparation of a <b>Nest Box Plan</b> . If a Plan is required, it shall be included as part of the Biodiversity Offset Package required by condition C4 and detail the number and type of nest boxes to be installed, which shall be justified based on the number and type of hollows removed, the density of hollows in the area to be cleared and in adjacent areas, and the availability of adjacent food resources. The Plan shall also consider the relocation of any hollows removed from the site to provide for potential nesting habitat. The Plan shall also provide details of maintenance protocols for any nest boxes installed including responsibilities, timing and duration.	Not Triggered	No trees were required to be removed as part of the Modification 2 works.	
Litoria aurea (Green and Golden Bell Frog)				
E8	The Proponent shall prepare a management plan that identifies the strategies that would be implemented in the event that the Green and Golden Bell Frog is identified during construction. The plan shall be developed in consultation with the OEH and include details on the mitigation measures to be implemented to minimise the risk to this species, including direct and indirect impacts to its habitat. The plan is to be submitted to the Director-General at least one month prior to construction, unless otherwise agreed by the Director-General. Nothing in this condition precludes the inclusion of this plan in the Flora and Fauna Management Plan (condition E63(b)).	Compliant	Green and Golden Bell Frog Plan (Attachment E of CFFMP; Aurizon, Revision 1, 9/09/2022) sighted, which included images of the Green and Golden Bell Frog and mitigation measures for the minimisation of risks to these species (including pre-clearing surveys, training and marking of potential habitat areas).  Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the CFFMP (Aurizon, Revision 1, date 9/09/2022) was sighted.  Modification 2 works were not located near likely frog habitat. No sightings were reported during the works.	
E9	In the event that the Green and Golden Bell Frog is identified to occur during construction, all work in the vicinity of the sighting shall stop to the extent necessary to allow the procedures set out in the management plan (condition E8) to be implemented.	Not Triggered	Based on the CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023), there were no sightings during construction.	
Flora and Fauna Mitigation Measures				
E10	In the event that other threatened fauna or flora species are identified during construction, all work in the vicinity of the sighting shall stop and management measures to minimise the risk to the species implemented in accordance with the procedure required by condition E63 (b)(iv).	Not Triggered	Biodiversity Development Assessment Report Waiver Request (Jacobs, date 21/09/2021) concluded that the site is a highly disturbed area with negligible biodiversity value.  Based on CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023), there were no sightings of threatened fauna or flora species during construction.  Aurizon staff confirmed this during the site inspection, stating that the only exception was snakes, which moved away.	
E11	The Proponent shall implement measures to minimise impacts to fauna species and their habitat as far as practicable (and where feasible and reasonable), during the construction of the SSI, including: a) protocols for the removal and relocation of fauna during clearing, including a twostage clearing strategy; b) establishing “no go” zones, including at freshwater wetland and coastal saltmarsh sites outside of the construction zone; c) provision of setbacks; d) presence of a suitably qualified and experienced ecologist to oversee clearing activities and facilitate fauna rescues and relocation; e) timing construction to be outside of the breeding season of threatened species with the potential to occur on the site; f) maintaining and reinstating habitat features (such as large woody debris, bush rock, leaf litter/mulch and topsoil etc.);	Compliant	Based on CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023), the conditions set out in the CFFMP (Aurizon, Revision 1, 9/09/2022) were implemented as required. Each of the listed controls within this condition are addressed in the CFFMP.  No “no go” zones were required during Modification 2 works, as there were no features requiring “no go” zones in the vicinity of construction.	





Condition Number	Condition	Compliance Status	Evidence	Recommended Action
	<p>g) developing measures for minimising the incidence of fauna being trapped in excavation cells (such as minimising the length of time that cells are left exposed) and measures to deal with trapped or injured fauna;</p> <p>h) implementing drainage controls to prevent the extension of Gambusia holbrooki (Eastern Mosquitofish) into the Hexham Swamp Nature Reserve; and</p> <p>i) progressive re-vegetation of areas temporarily disturbed by construction.</p> <p>The Proponent is to implement the specific flora and fauna mitigation measures prior to commencement of construction of the Turning Angle Works.</p>			
E12	Where reasonable and feasible, all private access tracks and internal service roads are to be at least 50 metres from SEPP 14 wetlands and the Hexham Swamp Nature Reserve, <del>unless this is in conflict with condition C33</del> , or as otherwise agreed by the Planning Secretary, or as specified at an alternative distance in the documents listed under conditions B1 (c) of this approval.	Compliant	Based on the site aerial photograph and construction compliance reports CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023), no private access tracks or internal service roads are constructed within 50 m of SEPP 14 wetlands or the Hexham Swamp Nature reserve.	
Heritage				
Aboriginal Heritage				
E13	During detailed design and construction of the SSI, impacts to Aboriginal objects shall, where feasible and reasonable, be avoided and minimised, under the guidance of an appropriately qualified archaeological heritage consultant. Where impacts are unavoidable, works shall be undertaken in accordance with the strategy outlined in the Construction Heritage Management Plan (condition E63(e)).	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works. An Aboriginal Due Diligence Report was prepared for the Modification 2 works (Jacobs, date 22/03/2022), which concluded that the proposed works would not harm any Aboriginal objects.	
E14	Prior to the commencement of pre-construction and/or construction activities, the Proponent shall provide registered Aboriginal stakeholders with the opportunity to collect the shell material located in fill material near the southern end of the proposed SSI and for the material to be lodged in a keeping place in accordance with condition E63 (e)(i)V.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
E15	Prior to the commencement of pre-construction and/or construction activities that will impact on HS1 and HS2, the Proponent shall provide for an appropriately qualified archaeological heritage consultant and registered Aboriginal stakeholders to record and collect any surface artefacts which would be affected by the construction of the SSI. The artefacts shall be lodged in a keeping place as identified under condition E63 (e)(i)V.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
E16	The Proponent shall erect a protection zone around the rise of land near to Woodlands Close to prevent incursion into the HS1 area during the pre-construction and construction phases of the SSI. The area to be protected shall be delineated in consultation with the registered Aboriginal stakeholders and an appropriately qualified archaeological heritage consultant.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Historic Heritage				
E17	The Proponent shall prepare an Interpretation Plan to ensure that the proposed plaque and salvaged building materials are used appropriately and placed in appropriate locations to ensure that the sites users are able to understand and appreciate the sites history and heritage. The Interpretation Plan will be prepared by an appropriately qualified interpretation specialist and will be submitted to the Heritage Council for review prior to the installation of these interpretive features.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Noise and Vibration				
Construction Hours				
E18	Construction activities (including the delivery of materials) associated with the SSI shall be undertaken during the following standard construction hours: a) 7:00 am to 6:00 pm Mondays to Fridays, inclusive; and b) 8:00 am to 1:00 pm Saturdays; c) (c) at no time on Sundays or public holidays.	Compliant	Marked as compliant in CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023). During the site inspection, it was confirmed that no work was required outside of standard construction hours.  These hours are detailed in Section 2.5 of the CEMP (Aurizon, Revision 1, date 10/08/2022) and Section 2.4 of the Construction Traffic Management Plan (CTMP; Aurizon, Revision 1, date 6/09/2022).	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
E19	<p>Construction activities (including the delivery of materials) outside of the prescribed construction hours identified in condition E18 may be undertaken in the following circumstances:</p> <p>a) construction works where the cumulative air-borne noise generated is:</p> <p>(i) no more that 5 dB(A) above the rating background level at any residence in accordance with the Interim Construction Noise Guideline (DECC, 2009); and</p> <p>(ii) no more than the noise management levels specified in Table 3 of the Interim Construction Noise Guideline (DECC, 2009) at other sensitive receivers;</p> <p>b) where a negotiated agreement has been reached with affected receivers as the prescribed noise and vibration levels cannot be achieved;</p> <p>c) for the delivery of materials required outside these hours by the NSW Police Force, RMS or other authorities for safety reasons;</p> <p>d) where it is required in an emergency to avoid the loss of lives, property and/or to prevent environmental harm; or</p> <p>e) (e) works approved through an EPL (including rail possessions) and in accordance with an out-of-hours works procedure.</p>	Compliant	<p>These conditions are reflected in Section 4.2 of the Construction Noise and Vibration Management Plan (CNVMP; Aurizon, Revision 1, 6/09/2022).</p> <p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no out of hours works were undertaken during Modification 2 construction.</p>	
E20	<p>Except as expressly permitted by an EPL, high noise impact activities and works resulting in impulsive or tonal noise emissions (such as rock braking, rock hammering and pile driving) shall only be undertaken:</p> <p>a) between the hours of 8:00 am to 5:00 pm Monday to Friday;</p> <p>b) between the hours of 8:00 am to 1:00 pm Saturday; and</p> <p>c) in continuous blocks not exceeding three hours each with a minimum respite from those activities and works of not less than one hour between each block.</p> <p>For the purposes of this condition 'continuous' includes any period during which there is less than a one hour respite between ceasing and recommencing any of the work which is the subject of this condition.</p>	Compliant	<p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no rock braking, rock hammering and pile driving was proposed to occur as part of Modification 2 construction works.</p> <p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no out of hours works were undertaken during Modification 2 construction.</p>	
Construction Noise and Vibration				
E21	<p>The Proponent shall implement all reasonable and feasible noise mitigation measures with the aim of achieving the construction noise management levels detailed in the <i>Interim Construction Noise Guideline</i> (DECC, 2009). Any activities that could exceed the construction noise management levels shall be identified and managed in accordance with the Construction Noise and Vibration Management Plan required under condition E63 (c) of this approval.</p> <p><i>Note: The Interim Construction Noise Guideline identifies 'particularly annoying' activities that require the addition of 5 dB(A) to the predicted level before comparing to the construction noise management levels.</i></p>	Compliant	<p>The Section 5.25 Modification to SSI-6090 (formerly MP07_171) (Ethos Urban, date 8/04/2022) concluded that predicted noise levels for construction would remain within Noise Management Levels at all noise sensitive receiver locations.</p> <p>The CNVMP (Aurizon, Revision 1, 6/09/2022) states that as noise impacts were not expected to exceed trigger levels, noise monitoring would only be completed in response to community complaints. Aurizon Call Centre Log' was sighted; no complaints were recorded for the Hexham site during the audit period.</p> <p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that noise monitoring would be undertaken as per the CNVMP if triggered. The reports state that no community complaints were received during the reporting period.</p> <p>During the site inspection it was confirmed that no 'particularly annoying' (as identified in ICNG 2009) activities were undertaken.</p>	
E22	<p>The SSI shall be constructed with the aim of achieving the following construction vibration goals and ground-borne noise levels:</p> <p>a) for structural damage vibration, the vibration limits set out in the German Standard <i>DIN 4150 Part 3-1999 Structural Vibration in Buildings - Effects on Structures</i>;</p> <p>b) for human exposure, the acceptable vibration values set out in the <i>Environmental Noise Management Assessing Vibration: A Technical Guideline</i> (DEC, 2006); and</p> <p>c) (c) the ground-borne noise levels set out in the <i>Interim Construction Noise Guideline</i> (DECC, 2009).</p>	Compliant	<p>The Section 5.25 Modification to SSI-6090 (formerly MP07_171) (Ethos Urban, date 8/04/2022) concluded that predicted noise levels for construction would remain within Noise Management Levels at all noise sensitive receiver locations.</p> <p>Vibration impacts were not considered in the Mod 2 impact assessment, however the 2012 assessment report for the TSF (Environmental Assessment, NSW Train Support Facility, Maitland Road, Hexham (ADW Johnson Pty Limited, 2012) stated that review of potential vibration impacts by SLR concluded that the distance between construction and operational sources means that the proposed development is below the criteria for minimal risk of cosmetic damage to residential and commercial properties.</p>	





Condition Number	Condition	Compliance Status	Evidence	Recommended Action
E23	Wherever feasible and reasonable, piling activities shall be undertaken using quieter alternative methods than impact or percussion piling, such as bored piles or vibrated piles.	Not Triggered	Construction Compliance Report 1 (Aurizon, 1 June 2023) and CCR 2 (Aurizon, 31 July 2023) state that no rock breaking, rock hammering and pile driving was proposed to occur as part of Modification 2 construction works.	
E24	The Proponent shall identify and consult with potentially-affected community, religious, educational institutions and vibration-sensitive businesses and critical working areas, including the Church on Old Maitland Road, Hexham, and where feasible and reasonable ensure that noise generating construction works in the vicinity of the receivers are not timetabled during sensitive periods, unless appropriate other arrangements are made.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
E25	During construction, Proponents of other construction works in the vicinity of the SSI shall be consulted, and feasible and reasonable steps taken to coordinate works to minimise impacts on, and maximise respite for, affected sensitive receivers.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Rail Possessions				
E26	<p>The Proponent shall prepare and implement a management plan for each rail possession where construction works are being undertaken. The Plan shall include, but not be limited to:</p> <ul style="list-style-type: none"><li>a) a description of the works to be undertaken during the rail possession;</li><li>b) justification for the works to be undertaken during the possession, including reasons as to why the works are unable to be undertaken during standard construction hours;</li><li>c) timing and duration of the possession;</li><li>d) an out-of-hours work (OOHW) protocol for the assessment, management and approval of works outside of standard construction hours as defined in condition E18 including a risk assessment process under which an Environmental Representative may approve out-of-hour construction activities deemed to be of low environmental risk and refer high risk works for the Director-General's approval. The OOHW protocol shall detail standard assessment, mitigation and notification requirements for high and low risk out-of-hour works, and detail a standard protocol for referring applications to the Director-General;</li><li>e) a construction noise impact statement detailing the predicted noise levels, and specific management measures in relation to properties where noise levels are predicted to exceed the noise criteria in the Interim Construction Noise Guidelines (DECC, 2009); and</li><li>f) a consultation and notification process for affected sensitive receivers.</li></ul> <p>The Plan shall be submitted to the Director-General at least one month prior to the rail possession, unless otherwise agreed by the Director-General.</p> <p>Works undertaken during a rail possession shall be limited to those necessary to facilitate critical work on or in the immediate vicinity of the rail line which cannot otherwise be undertaken due to safety issues and/or track reliability.</p>	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Soil, Water Quality and Hydrology				
Sedimentation and Erosion				
E27	Fluvial geomorphology, soil and water management measures consistent with the recommended mitigation measures in Appendix E of the document referred to in condition B1 (c) and the measures in <i>Managing Urban Stormwater - Soils and Construction Volumes 1 and 2, 4th Edition</i> (Landcom, 2006) shall be employed prior to and during the construction of the SSI (including prior to clearing) to minimise soil erosion and the discharge of sediment and other pollutants to land and/or waters.	Compliant	<p>The S&amp;WMP (Aurizon, Revision 1, 12/09/2022) sets out erosion and sediment control measures consistent with <i>Managing Urban Stormwater - Soils and Construction Volume 1</i> (i.e., the 'Blue Book').</p> <p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that all works were carried out and protected in accordance with the Blue Book.</p> <p>Site Inspection photos from 17 February 2023 and 28 July 2023 were sighted, which showed constructed stormwater channels with check dams, and the use of sedimentation filters around stormwater grates.</p> <p>Hutchinsons Builders 'Big 10 Weekly Site Inspection' records were provided for review (date, 13/01/2023, 24/02/2023, 31/03/2023, 28/04/2023, and 19/05/2023). These inspections included an environment section, with items relating to dust and sediment. A copy of a Hexham OEMP Audit Storm Water Quarterly checklist was also provided (Aurizon, date 5/12/2024) which included items relating to drain maintenance, condition of basins, and containment of waste, fuels, oils and other chemicals.</p>	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
E28	Facilities shall be provided (including at all exit points leading onto public roads) to minimise tracking mud, dirt or other material onto a public road or footpath. In the event of any spillage, the Proponent shall remove the spilled material as soon as practicable within the working day of the spillage.	Compliant	<p>A letter from Aurizon to DPIE (RE: MP07_0171 MOD 1 (SSI -6090) Condition E28 Clarification, date 11/03/2023) clarifying the requirements of Condition E28 and requesting confirmation that existing project controls are adequate to prevent tracking of materials offsite. These controls included: the 3 kilometre TSF site access road being utilised as a 'facility' to dislodge materials tracked offsite from the project boundary, halting of construction works and access to the project during wet weather, routine maintenance of project haul and access roads, and allowance for cleaning of the TSF site access road if required.</p> <p>An email from DPIE (from: Heidi Watters, to: Harry Egan, subject: RE: MP07_)171 MOD 1 Condition E28 Clarification, date 13/03/2020) confirming DPIE approval of the controls was provided.</p> <p>Aurizon applied this approval for Modification 1 to the Modification 2 works, as it was decided that no additional controls were needed.</p>	
E29	Where reasonable and feasible, the Proponent shall undertake the upgrade of waterway crossing during periods of dry weather.	Not Triggered	CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no crossings of waterways were necessary during the Modification 2 construction works. No waterways were observed in the vicinity of the works.	
Contamination				
E30	Prior to the commencement of construction the Proponent shall undertake further investigations as recommended in the Remediation Action Plan included in Appendix H of the document referred to in condition B1 (c), to confirm the presence of contaminants on site, based on detailed design requirements. Upon confirmation of the contaminated areas on site, the Proponent shall update the Remediation Action Plan as required to take into account any new or updated procedures relevant to any new areas of contamination identified and remediate the identified sites in accordance with the updated Remediation Action Plan, prior the commencement of construction in the impacted areas.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
E31	Where unexpected contaminated materials are identified during construction works, these materials would be identified, managed, treated and disposed of in accordance with the procedures outlined in the updated <b>Site Management Plan</b> . Where required, the Proponent shall engage a suitably qualified contaminated land consultant to prepare an addendum to the Validation Report referred to in condition E33. to cover the additional areas of contamination identified and additional remediation measures undertaken. The Proponent shall also engage an accredited NSW Site Auditor to prepare an updated Site Audit Report to assess the addendum Validation Report and submit a copy of both reports to the <b>Planning Secretary</b> and City of Newcastle.	Not Triggered	<p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 - (Aurizon, Revision 1, date 31/07/2023) state that no unexpected contamination was identified during the construction process.</p> <p>Section 3.2 of the Site Management Plan (SMP) (Aurizon, Revision 4, date 12/08/2024) includes a process for dealing with known and unexpected contamination during surface disturbance works.</p>	
E32	<p>Prior to the reuse of ballast, chitter or tailings within the existing railway corridor, the Proponent shall undertake sampling and testing of the materials to establish whether:</p> <p>a) the materials are of a quality suitable for the intended reuse; and</p> <p>b) the removal and reuse of the materials would not result in contaminated runoff.</p> <p>Materials that are not suitable for reuse are to be classified in accordance with the <i>Waste Classification Guidelines</i> (DECCW, 2009) or any superseding document.</p>	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
E33	The Proponent shall engage a suitably qualified contaminated land consultant to prepare a Validation Report upon completion of the remediation of the areas identified in the Remediation Action Plan. The Validation Report shall verify that the site has been remediated in accordance with the Remediation Action Plan (if and as amended) and to a standard consistent with the intended land use. The Proponent shall engage an accredited NSW Site Auditor to prepare a Site Audit Report to determine the appropriateness of the Validation Report. The Validation Report and Site Audit Report shall be submitted to the <b>Planning Secretary within six months of completion of remediation works</b> . A copy of the reports shall also be submitted to the City of Newcastle for its information.	Not Triggered	CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no unexpected contamination was identified during the Modification 2 construction process.	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
Riparian and Aquatic Ecology				
E34	Impacts to riparian areas shall be minimised to the greatest extent practicable. Riparian vegetation in and around watercourses affected by the construction of the SSI shall be restored and rehabilitated in consultation with NoW and DPI (Aquaculture and Fisheries). Restoration and rehabilitation measures, including timeframes and reporting on completion of works, shall be included in the Construction Flora and Fauna Management Plan as required by (condition E63(b)).	Not Triggered	CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no impacts to riparian vegetation occurred during the Modification 2 works or reporting period. No waterways were observed in the vicinity of the works.	
E35	Construction activities undertaken in and around watercourses (including creek crossings) shall be consistent with the relevant NoW's Guidelines for Controlled Activities, including, but not limited to, 'In-stream Works', 'Outlet Structures', 'Riparian Corridors', 'Vegetation Management Plans', and 'Watercourse Crossings', or any guidelines which supersede these documents.	Not Triggered	CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no works around water courses occurred during the Modification 2 works or reporting period. No waterways were observed in the vicinity of the works.	
E36	The Proponent shall schedule earthworks and any works on hydraulic controls to ensure that connection between the Hunter River and Hexham Swamp floodplain is retained throughout construction.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Flooding				
E37	The Proponent shall ensure that all fuels, dangerous goods and hazardous substances used in the construction of the SSI are stored in bunded locations above the 1% AEP flood level, unless otherwise agreed by the Director-General.	Compliant	Marked as compliant in CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023). During the site inspection, all fuels and hazardous substances (for operations) were observed to be stored in bunded areas.	
E38	The Proponent shall ensure that all areas used for the storage and treatment of acid sulfate soils during construction of the SSI are located or elevated above the 1% AEP flood level, unless otherwise agreed by the Director-General.	Not Triggered	Construction Compliance Report 1 (Aurizon, 1 June 2023) and CCR 2 (Aurizon, 31 July 2023) state that no PASS was encountered during the Modification 2 construction works.	
Groundwater				
E39	Changes to hydrogeology, including groundwater depths, interception and connection with surface water, shall be minimised to the greatest extent practicable.	Compliant	CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no changes to hydrogeology occurred during the Modification 2 construction works, due to ongoing utilisation of the TSF drainage infrastructure.  Reported groundwater levels in monitoring reports did not note any significant drawdown during the audit period.	
E40	Dewatered groundwater shall not be discharged from the construction site or applied on site unless in accordance with an EPL.	Compliant	The site is not regulated by an EPL.  CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no groundwater was discharged from the site or applied to the project area.	
Transport and Access				
Road Dilapidation				
E41	The Proponent shall engage an independent and qualified person(s) to prepare Road Dilapidation Reports for the Tarro Interchange prior to their use by construction heavy vehicles. The report shall assess the current condition of the road and describe mechanisms to restore any damage that may result due to traffic and transport related to the construction of the SSI. The Report shall be submitted to the relevant road authority(ies) for review prior to use of the roads for construction.  Following completion of construction, a subsequent report shall be prepared to assess any damage caused by the construction of the SSI.	Compliant	Modification 2 construction commenced on 9 December 2022.  A Road Dilapidation Report (GHD, date 9/11/2022) was prepared by GHD prior to construction, and sent to a representative of the Department of Transport NSW (email from: Harry Egan, to: David Finlay, subject:	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
	<p>The Proponent shall ensure that any measures to restore or reinstate roads affected by the construction of the SSI are undertaken in a timely manner, in accordance with the requirements, and to the satisfaction, of the relevant road authority(ies), and at the full expense of the Proponent.</p> <p>Any pavement failures arising from construction traffic that result in safety concerns for other road users, shall be repaired in accordance with the relevant road authority's specifications no later than 48 hours following notification by the relevant road authority.</p> <p><b>The Proponent must ensure that Road Dilapidation Reports are prepared prior to commencement of construction of the Turning Angle Works.</b></p>		<p>MP07_0171 Mod 2 Hexham TSF Road Dilapidation Report, date 10/11/2022).</p> <p>A post construction dilapidation inspection (GHD, date 24/08/2023) was completed on 23 August 2023 by GHD, which concluded that conditions were consisted with pre-construction. Results of the inspection were sent to a representative of the Department of Transport NSW (email from: Egan Harry, to: David Finlay, subject: MP07_0171 Mod 2 Hexham TSF Post Construction Road Dilapidation Report, date 25/08/2023).</p>	
<b>Construction Access</b>				
E42	The Proponent shall construct, in the event it is responsible, a new T-intersection on Anderson Drive (Tarro Interchange) on the southern side of the New England Highway, in accordance with the requirements of the RMS, including entering into a Works Authorisation Deed with the RMS. The T-intersection at the Tarro Interchange shall be linked to Woodlands Close via a construction access road as detailed in the document referred to in condition B1 (c).	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
E43	The Proponent shall design, in the event it is responsible, the T-intersection and construction access road and all associated traffic control signals and other structures in accordance with current AustRoads Standards and to the satisfaction of the relevant road authority(ies), and ensure that it is capable of accommodating the proposed construction traffic generated by the SSI and proposed ARTC Hexham Relief Roads project.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
E44	The Proponent shall, in the event it is responsible, seal the construction access road prior to commencement of use by construction traffic to provide all weather access.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
E45	Construction traffic shall not be permitted to access the SSI site via the New England Highway/Woodlands Close intersection at any time, <b>except in accordance with condition E47, or</b> unless otherwise approved by RMS.	Compliant	<p>The CTMP (Aurizon, Revision 1, date 6/09/2022) includes controls to ensure the requirements of this conditions are met, including a briefing during driver inductions on access routes, and highlighting access routes during toolboxes.</p> <p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that all access will be via the dedicated Hexham TSF access road located off Anderson drive as per the CTMP.</p>	
E46	Construction heavy vehicle traffic shall not utilise Anderson Drive between Woodberry Drive and its intersection with the New England Highway near Glenwood Drive, Tarro, unless otherwise approved under the Construction Traffic and Access Management Plan required by condition E63 (a).	Compliant	<p>The CTMP (Aurizon, Revision 1, date 6/09/2022) includes controls to ensure the requirements of this conditions are met, including a briefing during driver inductions on access routes, and highlighting access routes during toolboxes.</p> <p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that all access will be via the dedicated Hexham TSF access road located off Anderson drive as per the TMP.</p>	
E47	<del>Access (including heavy vehicles) to the construction site via Woodlands Close is permitted for up to 12 weeks during night time hours and on specified days of the week in accordance with a Traffic Control Plan to be approved by RMS and City of Newcastle. In the event of delays (eg. due to wet weather, materials supply, equipment availability, industrial action etc.), access via Woodlands Close may need to be extended beyond 12 weeks to enable completion of the Tarro interchange, subject to approval by RMS. Written notice would be given to the Director General and City of Newcastle of any RMS approved extension.</del>	Not Triggered	Condition not applicable.	
E48	During construction of the SSI, the Proponent shall take all feasible and reasonable measures to minimise impacts on intersection performance and maintain the existing levels of service. Where modifications to intersections are required to maintain intersection performance, the Proponent shall obtain the necessary approvals from the relevant road authority.	Not Triggered	CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no modification to or impacts to intersection performance were noted during Modification 2 construction works or the reporting period.	
E49	All construction works associated with the T-intersection on Anderson Drive (Tarro Interchange), Woodlands Close and the construction access road must be at no cost to the relevant road authorities, and to the satisfaction of the relevant road authorities.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
E50	The Proponent shall ensure as far as practicable that construction heavy and oversized vehicles associated with the construction of the SSI adhere to nominated haulage routes identified in the Construction Traffic and Access Management Plan (condition E63 (a)).	Compliant	<p>The CTMP (Aurizon, Revision 1, date 6/09/2022) includes controls to ensure the requirements of this conditions are met, including a briefing during driver inductions on access routes, and highlighting access routes during toolboxes.</p> <p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that all heavy vehicles adhered to nominated traffic routes.</p>	
E51	The Proponent shall ensure as far as practicable that all construction vehicles using public roads are maintained to prevent any loss of load, whether dust, liquid or soils.	Compliant	<p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that all vehicles were maintained as per relevant requirements, and that no construction vehicles utilised public roads as they were floated.</p> <p>A Machine Inspection report for the Skyjack SJ-6832T Scissor Lift (date 13 December 2022) and a service and repair record for the Mercedes Benz Arocs 2840 XO11HV (date 4 August 2022) were sighted.</p>	
E52	Safe pedestrian and cyclist access through or around worksites shall be maintained during construction. In circumstances where pedestrian and cyclist access is restricted due to construction related activities, a feasible and reasonable alternate route shall be provided and signposted.	Not Triggered	<p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that there is no permitted pedestrian or cyclist access to the Modification 2 project area, and that no project works are proposed to occur outside the Aurizon TSF boundary where interaction with the public may occur.</p>	
Private Property Access and Infrastructure				
E53	Access to private property shall be maintained during construction, unless otherwise agreed with the property owner in advance. Where access to a property is to be affected by construction of the SSI, the Proponent shall provide an alternative access of a standard that is at least equivalent to that currently existing and meets relevant road safety standards, prior to commencement of construction, unless otherwise agreed with the property owner. Details for provision of altered access shall be determined in consultation with the landholder.	Compliant	<p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no change to access occurred during the Modification 2 construction works or reporting period.</p>	
E54	Subject to agreement with the relevant landowner, a landowner's access that is physically affected by the SSI shall be reinstated to at least an equivalent standard upon completion of construction of the SSI, in consultation with the property owner.	Compliant	<p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no change to access occurred during the Modification 2 construction works or reporting period.</p>	
Air Quality				
E55	The Proponent shall construct the SSI in a manner that minimises, as far as practicable, dust emissions from the site, including wind-blown and traffic-generated dust, dust from stockpiles, and dust from the tracking of materials from the construction site onto public roads.	Compliant	<p>Construction complete at time of site inspection.</p> <p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that all works were undertaken in accordance with the Construction Air Quality Management Plan (CAQMP; Aurizon, Revision 1, date 10/08/2022), and that no dust complaints were received.</p> <p>The CAQMP Table 3.1 Environmental Control Measures includes a 'completed' column. Aurizon confirmed that the table was not routinely filled out during construction; however, Hutchinsons Builders 'Big 10 Weekly Site Inspection' records were provided for review (dated 13/01/2023, 24/02/2023, 31/03/2023, 28/04/2023, and 19/05/2023), which included an environment section, with items relating to dust emissions were marked as compliant.</p> <p>Images showing water carts being used to minimise dust emissions were provided (filename indicates photo date of 17 February 2023).</p>	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
E56	Should such visible dust emissions occur at any time, the Proponent shall identify and implement all feasible and reasonable dust mitigation measures (including temporary cessation of relevant works) such that emissions of visible dust cease.	Compliant	Construction complete at time of site inspection. CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that all works were undertaken in accordance with the CAQMP (Aurizon, Revision 1, date 10/08/2022), and that no dust complaints were received. Hutchinsons Builders 'Big 10 Weekly Site Inspection' records were provided for review (dated 13/01/2023, 24/02/2023, 31/03/2023, 28/04/2023, and 19/05/2023), which included an environment section, with items relating to dust emissions were marked as compliant. Two photographs sighted (filename indicates from 17 February 2023) showing construction works and water cart in use.	
E57	The Proponent shall ensure that plant and equipment used in connection with the construction of the SSI is maintained and operated in a proper and efficient condition to minimise air quality impacts.	Compliant	CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that all plant is maintained as per relevant requirements with operators qualified (Cert 3 and Tickets). A service and repair record for a Mercedes Benz Arocs 2840 Boom Pump 28m (XO11HV, date 4/08/2022) was provided.	
Visual Amenity				
E58	The SSI shall be constructed in a manner that minimises, as far as practicable, visual impacts resulting from construction sites, including retaining existing vegetation around the perimeter of construction sites, where feasible and reasonable, providing temporary landscaping or screening, and minimising light spillage.	Compliant	The Modification Assessment Report (SLR, 8 April 2022) concluded that all Modification 2 construction activities would be temporary in nature and would not result in any long-term visual impacts. It was recommended that all existing vegetation along the Hexham LTTSF site property boundary be retained to minimise long term visual impacts to private residences. During the site inspection, it was confirmed that existing vegetation along the property boundary was retained and that operations are generally well screened from surrounding areas.	
Ancillary Facilities				
E59	<p>Unless otherwise approved by the Director-General, Ancillary Facilities shall:</p> <ul style="list-style-type: none"><li>a) be located more than 50 metres from a waterway, SEPP 14 wetland or the Hexham Swamp Nature Reserve;</li><li>b) be located within or in close proximity to the construction footprint for the SSI;</li><li>c) be sited on relatively level land;</li><li>d) be separated from nearest residences by at least 200 metres (or at least 300 metres for a temporary batching plant);</li><li>e) not require native vegetation clearing beyond that already required by the SSI;</li><li>f) not impact on known heritage items (including areas of archaeological sensitivity) beyond those already impacted by the SSI;</li><li>g) not unreasonably affect the land use of adjacent properties;</li><li>h) be above the 10% AEP flood level unless a contingency plan to manage flooding is prepared and implemented; and</li><li>i) provide sufficient area for the storage of raw materials to minimise, to the greatest extent practical, the number of deliveries required outside standard construction hours.</li></ul> <p>The location of the ancillary facilities shall be identified in the Construction Environmental Management Plan (condition E62) and include consideration of the above criteria. Where the above criteria cannot be met for any proposed ancillary facility, the Proponent shall demonstrate to the satisfaction of the Director-General that there will be no significant adverse impact from that facility's construction. Such assessment(s) can be submitted separately or as part of the Construction Environmental Management Plan.</p> <p>The Director-General's approval is not required for the construction site compounds already identified in the document referred to in condition B1 (c) of this approval.</p>	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	





Condition Number	Condition	Compliance Status	Evidence	Recommended Action
E60	All Ancillary Facilities shall be rehabilitated to at least their pre-construction condition, unless otherwise agreed by the landowner where relevant.	Not Triggered	Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.	
Environmental Representative				
E61	<p>Prior to the commencement of construction of the SSI, or as otherwise agreed by the <b>Planning Secretary</b>, the Proponent shall nominate for the approval of the <b>Planning Secretary</b> a suitably qualified and experienced Environment Representative(s) that is independent of the design (including preparation of documentation referred to condition B1, and construction personnel. The Proponent shall employ the Environmental Representative(s) for the duration of construction, or as otherwise agreed by the <b>Planning Secretary</b>. The Environment Representative(s) shall:</p> <ul style="list-style-type: none"><li>a) be the principal point of advice in relation to the environmental performance of the SSI;</li><li>b) monitor the implementation and outcome of all environmental management plans and monitoring programs required under this approval and advise the Proponent upon the achievement of these plans and programs;</li><li>c) have responsibility for considering and advising the Proponent on matters specified in the conditions of this approval, and all other licences and approvals related to the environmental performance and impacts of the SSI;</li><li>d) ensure that environmental auditing is undertaken in accordance with the requirements of condition D5A of this approval and the Proponent's Environmental Management System(s);</li><li>e) be given the authority to approve/reject minor amendments to the Construction Environment Management Plan. What constitutes a "minor" amendment shall be clearly explained in the Construction Environment Management Plan required under condition E62;</li><li>f) be given the authority and independence to require reasonable steps be taken to avoid or minimise unintended or adverse environmental impacts, and failing the effectiveness of such steps, to direct that relevant actions be ceased immediately should an adverse impact on the environment be likely to occur; and</li><li>g) be consulted in responding to the community concerning the environmental performance of the SSI where the resolution of points of conflict between the Proponent and the community is required.</li></ul> <p>The Environmental Representative must be retained for the duration of the construction of the Turning Angle Works. If the Environmental Representative previously engaged by this condition has been discharged from the SSI, a new Environmental Representative must be nominated to and approved by the Planning Secretary.</p>	Not Triggered	An email from DPIE (dated 14 October 2022) approving Aurizon's request to defer the appointment of an Environmental Representative for the duration of Modification 2 construction works was provided.	
Construction Environmental Management Plan				
E62	<p>Prior to the commencement of construction, the Proponent shall prepare and (following approval) implement a Construction Environmental Management Plan for the SSI. The Plan shall be prepared in accordance with the Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004) and outline the environmental management practices and procedures to be followed during construction, and shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"><li>a) a description of all relevant activities to be undertaken during construction of the SSI, including scheduling;</li><li>b) statutory and other obligations that the Proponent is required to fulfil during construction including all approvals, consultations and agreements required from authorities and other stakeholders, and key legislation and policies. Evidence of consultation with relevant public authorities shall be included;</li><li>c) a description of the roles and responsibilities for all relevant employees involved in the construction of the SSI, including relevant training and induction provisions for ensuring that all employees, including contractors and sub-contractors are aware of their environmental and compliance obligations under these conditions of approval;</li><li>d) identification of ancillary facility site locations, including an assessment against the location criteria outlined in condition E59;</li><li>e) an environmental risk analysis to identify the key environmental performance issues associated with the construction phase and details of how environmental performance would be monitored and managed to meet acceptable outcomes including the actions to be undertaken to address identified potential adverse environmental impacts. In particular, the following environmental performance issues shall be addressed in the Plan:<ul style="list-style-type: none"><li>(i) measures to monitor and manage dust emissions including dust generated by haulage trucks, traffic on unsealed internal access roads and stockpile management,</li><li>(ii) measures to monitor and manage waste (solid and liquid) generated during construction including, but not necessarily limited to, identification of potential waste streams, general procedures for waste classification, waste management and mitigation measures, use of secondary waste material in construction wherever feasible and reasonable, and procedures for dealing with green waste,</li><li>(iii) measures to monitor and manage spoil and fill including earthworks volumes, details of how spoil and fill would be handled, stockpiled, classified, used and disposed of, and a stockpile management protocol detailing location criteria that would guide the placement of stockpiles and minimum management measures (including rehabilitation) that would be implemented to avoid and/or minimise amenity impacts to surrounding residents and environmental risks (including to surrounding watercourses and wetlands), and</li><li>(iv) measures to monitor and manage hazard and risks including emergency management;</li></ul></li><li>f) measures for rehabilitating construction disturbance areas that are not required for ongoing operations including construction compounds;</li><li>g) details of community complaints handling procedures and community involvement strategies during construction, consistent with the requirements of conditions D1 and D2 of this approval,</li><li>h) details of compliance and incident management and reporting consistent with the requirements of conditions D5, D6 and D7;</li><li>i) procedures for the periodic review and update of the Construction Environmental Management Plan as necessary (including where minor changes can be approved by the Environmental Representative); and</li></ul>	Compliant	<p>Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the CEMP (Aurizon, Revision 1, date 10/08/2022) was sighted.</p> <p>The Construction Environmental Management Plan addressed each of the requirements listed, as follows:</p> <ul style="list-style-type: none"><li>(a) Section 2.0</li><li>(b) Section 3.3</li><li>(c) Section 3.2</li><li>(d) Modification 2 is an ancillary facility. Assessment against E59 not triggered under condition B4A</li><li>(e) Annexure 4 – Environmental Risk Assessment</li><li>(f) Refers to Construction Waste and Spoil Management Plan</li><li>(g) Section 5.9</li><li>(h) Section 5.0 and 7.0</li><li>(i) Section 6.0</li><li>(j) Section 3.4</li></ul>	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
	<p>j) the additional Plans listed under condition E63.</p> <p>The Plan shall be submitted for the approval of the <b>Planning Secretary</b> at least one month prior to the commencement of construction, or within such period otherwise agreed by the <b>Planning Secretary</b>. Construction works shall not commence until written approval has been received from the <b>Planning Secretary</b>. <b>Prior to construction of the Turning Angle Works, the Proponent must provide a copy of the revised plan including the Turning Angle Works to the Environmental Representative for approval.</b></p> <p><i>Note: The approval of a Construction Environmental Management Plan does not relieve the Proponent of any requirement associated with this infrastructure approval. If there is an inconsistency with an approved Construction Environmental Management Plan and the conditions of this infrastructure approval, the requirements of this infrastructure approval prevail.</i></p>			
E63(a)	<p>As part of the <b>Construction Environment Management Plan</b> for the SSI required under condition E62 of this approval, the Proponent shall prepare and implement the plans listed at (a) to (f) below. Where a plan is required to be prepared in consultation with an authority or stakeholders, the plan shall provide details on the consultation undertaken including any comments received and where these have been addressed in the plan. (a) A Construction Traffic and Access Management Plan to manage construction traffic and access impacts of the SSI and minimise disruptions to local traffic movements. The Plan shall be developed in consultation with the relevant road authority(ies) and include, but not necessarily be limited to:</p> <p>(i) identification of construction traffic and haulage routes and quantification of projected construction traffic volumes (including light, heavy and overdimensional/ over mass sized vehicle movements, and spoil haulage), including any necessary route or timing restrictions on oversized loads. Construction traffic volumes and haulage routes should be detailed for the proposed T-intersection at the Tarro Interchange and New England Highway/Woodlands Close;</p> <p>(ii) details of the construction program for the T-intersection at the Tarro Interchange and construction access road connecting the intersection to Woodlands Close;</p> <p>(iii) a description of the site access arrangements for light, heavy and oversized vehicles prior to and upon completion of the T-intersection at the Tarro Interchange and construction access road connecting the intersection to Woodlands Close;</p> <p>(iv) a Vehicle Movement Plan and Traffic Control Plans;</p> <p>(v) a protocol for minimising the cumulative construction traffic impacts of the SSI and proposed ARTC Hexham Relief Roads project, prepared in consultation with ARTC;</p> <p>(vi) methods for advising motorists of construction activities at the Tintersection on Anderson Drive (Tarro Interchange);</p> <p>(vii) details of the traffic management measures and key warning signage to be installed at the T-intersection on Anderson Drive (Tarro Interchange);</p> <p>(viii) construction staff parking requirements and the location(s) of proposed parking facilities;</p> <p>(ix) details of all temporary road closures and detours and measures to minimise impacts on local traffic;</p> <p>(x) a description of any proposed changes to pedestrian access at Woodlands Close, including measures to minimise impacts on pedestrian access;</p> <p>(xi) a driver code of conduct; and</p> <p>(xii) mechanisms for the monitoring, review and amendment of this plan.</p>	Compliant	<p>Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the CTMP (Aurizon, Revision 1, date 6/09/2022) was sighted.</p> <p>The CTMP addressed each of the requirements listed, as follows:</p> <p>(i) Section 2.2 and 3.4</p> <p>(ii) Tarro Interchange has been completed.</p> <p>(iii) No additional access arrangements are required. If oversized vehicle movements are required, consultation with TFNSW will be undertaken prior to movements occurring.</p> <p>(iv) Section 3, Appendix A and Appendix B.</p> <p>(v) As the HRR project has been completed, no cumulative impacts during Modification 2 construction is expected to occur.</p> <p>(vi) T-intersection has been completed. No advising of motorists is required.</p> <p>(vii) T-intersection has been completed. No advising of motorists is required.</p> <p>(viii) Appendix B</p> <p>(ix) No road or lane closures anticipated. Oversized loads to be managed in consultation with TFNSW under escort and are envisaged not to require lane closures.</p> <p>(x) No changes to existing pedestrian access as part of Modification 2.</p> <p>(xi) Appendix B</p> <p>(xii) Section 5.0</p>	
E63(b)	<p>A <b>Construction Flora and Fauna Management Plan</b> to detail how construction impacts on ecology will be minimised, managed and monitored. The Plan shall be developed in consultation with the EESG and the <b>Water Group</b> and shall include, but not necessarily be limited to:</p> <p>(i) details of pre-construction surveys required to verify the construction boundaries/footprint of the SSI based on detailed design and to confirm the vegetation to be cleared as part of the SSI (including threatened flora and fauna species, endangered ecological communities, riparian vegetation and tree hollows);</p> <p>(ii) details on the location (including plans) of all native vegetation communities, threatened flora and fauna species and their habitat, and endangered ecological communities to be impacted by the SSI;</p> <p>(iii) details of mitigation measures to be implemented during construction to minimise impacts on native fauna and vegetation (particularly threatened species and endangered ecological communities and their habitats), including measures to be implemented in those areas that will not be cleared. Measures shall include, but not necessarily be limited to, the mitigation measures set out in this infrastructure approval, delineation of sensitive areas, a protocol for the removal and relocation of fauna during clearing, fauna rescue procedure, appropriate topsoil management, erosion and sediment control, and construction worker education;</p> <p>(iv) a procedure for dealing with unexpected finds of threatened species and endangered ecological communities and their habitat identified during construction, including stopping works and notification to the <b>EESG</b> and the Department, determination of appropriate mitigation measures in consultation with the <b>EESG</b> (including relevant re-location measures), and updating of biodiversity offset requirements consistent with condition C4;</p> <p>(v) procedures for clearing blockages in waterways resulting from construction of the SSI;</p> <p>(vi) weed management measures focusing on early identification of invasive weeds and effective management controls;</p> <p>(vii) proposed revegetation and rehabilitation measures, including identification of flora species and sources, completion criteria and measures for the management and maintenance of rehabilitated/ revegetated areas;</p> <p>(viii) a description of how the effectiveness of management measures would be monitored and linked to the Ecological Monitoring Program required under condition C3; and</p> <p>(ix) mechanisms for the monitoring, review and amendment of this plan.</p>	Compliant	<p>Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the CFFMP (Aurizon, Revision 1, date 9/09/2022) was sighted.</p> <p>The CFFMP addressed each of the requirements listed, as follows:</p> <p>(i) Table 7</p> <p>(ii) Attachment A</p> <p>(iii) Table 7</p> <p>(iv) Table 7</p> <p>(v) Table 7</p> <p>(vi) Section 4.0 and Table 4.1</p> <p>(vii) Table 7</p> <p>(viii) Section 5.0</p> <p>(ix) Section 5.0</p>	





Condition Number	Condition	Compliance Status	Evidence	Recommended Action
E63(c)	<p>A <b>Construction Noise and Vibration Management Plan</b> to detail how construction noise and vibration impacts will be minimised and managed. The Plan shall include, but not necessarily be limited to:</p> <p>(i) identification of the nearest sensitive receivers and relevant construction noise and vibration goals applicable to the SSI;</p> <p>(ii) identification of key noise and vibration generating construction activities (based on representative construction scenarios) that have the potential to impact on surrounding sensitive receivers;</p> <p>(iii) details on predicted worst-case construction noise impacts, including traffic noise and cumulative noise impacts associated with on-site construction activities and construction of the adjacent proposed HRR project;</p> <p>(iv) identification of all feasible and reasonable measures for minimising construction noise and achieving the relevant noise management goals at sensitive receivers (including construction traffic noise impacts) required by condition E21;</p> <p>(v) procedures and mitigation measures to ensure relevant vibration criteria are achieved, including applicable buffer distances for vibration intensive works, use of low-vibration generating equipment/vibration dampeners or alternative construction methodology, and pre- and post- construction dilapidation surveys of sensitive structures where vibration is likely to result in damage to structures;</p> <p>(vi) a protocol for minimising the cumulative construction noise and vibration impacts of the SSI and proposed ARTC Hexham Relief Roads project, prepared in consultation with ARTC;</p> <p>(vii) procedures for notifying sensitive receivers of construction activities that are likely to affect their noise and vibration amenity, as well as procedures for dealing with and responding to noise complaints;</p> <p>(viii) a safety risk assessment to determine the availability of safe alternatives to ‘beeper’ type reversing or movement alarms on vehicles, plant and equipment used during the construction of the SSI;</p> <p>(ix) a program and procedures for construction noise and vibration monitoring indicating monitoring frequency and location, monitoring methods, responsibilities for monitoring and assessment, methods for recording and reporting monitoring results, and procedures to be followed where exceedances of relevant noise and vibration goals are detected; and</p> <p>(x) mechanisms for the monitoring, review and amendment of this Plan.</p>	Compliant	<p>Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the CNVMP (Aurizon, Revision 1, 6/09/2022) was sighted.</p> <p>The CNVMP addressed each of the requirements listed, as follows:</p> <p>(i) Section 2.1</p> <p>(ii) Section 2.2</p> <p>(iii) Section 2.2</p> <p>(iv) Section 4.1</p> <p>(v) Section 4.1</p> <p>(vi) Not Applicable to Modification 2</p> <p>(vii) Section 4.1</p> <p>(viii) Annexure 2, vehicles were fitted with “squashed duck” sounding alerts.</p> <p>(ix) Section 5.1</p> <p>(x) Section 6.0 (not Section 5.3.1).</p>	
E63(d)	<p>A <b>Construction Soil and Water Management Plan</b> to manage surface water and groundwater impacts during the construction of the SSI. The Plan shall be developed in consultation with the City of Newcastle, <b>the Water Group</b> and Hunter-Central Rivers CMA and include, but not necessarily be limited to:</p> <p>(i) surface water and groundwater impact assessment criteria consistent with the principles of the Australian and New Zealand Environment Conservation Council (ANZECC) guidelines;</p> <p>(ii) identification of all potential sources of water pollution and contaminants and details on the mitigation measures to be implemented to prevent the discharge of pollutants and contaminants from the SSI site, including saline and acid sulphate soils, and groundwater contaminants;</p> <p>(iii) details of the control measures to be employed to minimise surface and groundwater impacts, including drawdown of groundwater levels and connections with surface waters;</p> <p>(iv) management measures to be used to minimise surface and groundwater impacts, including identification of water treatment measures and discharge points, details of how spoil and fill material required by the SSI will be sourced, handled, stockpiled, reused and managed; erosion and sediment control measures; salinity control measures and the consideration of flood events;</p> <p>(v) management measures for contaminated material and a contingency plan to be implemented in the case of unanticipated discovery of contaminated material during construction;</p> <p>(vi) details on the methods for managing surface water runoff (including inlets and outlets and their capacity) and any accumulation of groundwater (including from excavation and dewatering) and surface water, including procedures for handling, treatment and disposal and/or reuse;</p> <p>(vii) details of how construction activities would be managed and mitigated to minimise erosion and sedimentation, consistent with condition E27;</p> <p>(viii) a program for reporting on the effectiveness of the water management measures and sediment and erosion controls against performance criteria; including procedures for rectifying any non-compliances;</p> <p>(ix) water quality monitoring consistent with the requirements of condition C19;</p> <p>(x) contingency plans to be implemented in the event of major fuel spills or other chemicals;</p> <p>(xi) an Acid Sulfate Soils Management Plan consistent with the Acid Sulfate Soils Manual, including a contingency plan to deal with the unexpected discovery of actual or potential acid sulfate soils, including procedures for the investigation, handling, treatment and management of such soils and water seepage;</p> <p>(xii) a contingency plan in the event that groundwater levels are observed to fall below the top of areas defined as containing potential acid sulfate soils;</p> <p>(xiii) a water balance plan detailing the source and security of construction water supply, water use on site, and water and wastewater management on site;</p> <p>(xiv) measures to minimise stream hydrology impacts, including measures to stabilise bank structures where required and details of proposed buffer zones adjacent to waterways;</p> <p>(xv) a description of how the effectiveness of these actions and measures would be monitored during the proposed works, clearly indicating how often this monitoring would be undertaken, the locations where monitoring would take place, how the results of the monitoring would be recorded and reported, and, if any exceedance of the criteria is detected how any noncompliance can be rectified; and</p> <p>(xvi) mechanisms for the monitoring, review and amendment of this Plan.</p>	Compliant	<p>Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the S&amp;WMP (Aurizon, Revision 1, 12/09/2022) was sighted.</p> <p>The S&amp;WMP addressed each of the requirements listed, as follows:</p> <p>(i) Section 5.3</p> <p>(ii) Section 2.0</p> <p>(iii) Section 3.0</p> <p>(iv) Section 3.0 and 4.0</p> <p>(v) Refers to Site Management Plan</p> <p>(vi) Section 3.0</p> <p>(vii) Section 4.0</p> <p>(viii) Section 5.0 and 6.0</p> <p>(ix) Section 5.0</p> <p>(x) Section 6.0 (which refers to the Site Emergency Response Procedure and Section 7 of the CEMP)</p> <p>(xi) Refers to Site Management Plan/Acid Sulfate Soils Management Plan</p> <p>(xii) Section 3.0 (only Section 3.0, not also Section 6.0 as listed in Appendix A)</p> <p>(xiii) Section 3.4</p> <p>(xiv) Section 4.0</p> <p>(xv) Section 5.0 and 6.0</p> <p>(xvi) Section 6.0</p>	
E63(e)(i)	<p>A <b>Construction Heritage Management Plan</b> to detail how construction impacts on Aboriginal and Historic heritage will be minimised and managed. The Plan shall be developed in consultation with the <b>EESG</b> and registered Aboriginal stakeholders (for Aboriginal heritage), and include, but not necessarily be limited to:</p> <p>(i) In relation to Aboriginal Heritage –</p>	Compliant	<p>Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the Construction</p>	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
	I. identification of Aboriginal objects directly and indirectly affected by the SSI, II. details of management measures to be carried out in relation to Aboriginal heritage, including a detailed methodology and strategies for protection, monitoring, salvage, and conservation of objects associated with the SSI, III. procedures and timing for implementing the requirements of conditions E13 to E16 inclusive, IV. procedures for dealing with previously unidentified Aboriginal objects (excluding human remains) including cessation of works in the vicinity, assessment of the significance of the item(s), determination of appropriate mitigation measures by a suitably qualified archaeologist in consultation with the Department, <b>EESG</b> and registered Aboriginal stakeholders, procedure for determining when works can re-commence, and assessment of the consistency of any new Aboriginal heritage impacts against the approved impacts of the SSI, and registering of any new site(s) in the AHIMS database, V. details of an appropriate keeping place agreement with local Aboriginal community representatives for any Aboriginal objects salvaged during construction, VI. procedures for ongoing Aboriginal consultation and involvement for the duration of the SSI, and VII. procedures for managing the discovery of confirmed or potential human remains, including the temporary cessation of works in the vicinity and notification to the NSW Police Force, <b>EESG</b> , the Department and registered Aboriginal stakeholders and not recommencing any works in the area unless authorised by the <b>EESG</b> and/ or the NSW Police Force;		Aboriginal Heritage Management Plan (CAHMP; Aurizon, Revision 1, date 10/08/2022) was sighted. The CAHMP addressed each of the requirements listed, as follows: (i) Section 1.0 I. Section 3.2 II. Section 4.1 and Table 4.1 III. Section 2.2 and 3.0 IV. Section 5.2, Appendix B and Appendix C V. Section 3.3 and Section 5.2.4 VI. Table 4.1 VII. Section 5.2.3	
E63(e)(ii)	In relation to Historic Heritage – I. developed in consultation with the <b>Heritage Division</b> , II. identification of heritage items directly and indirectly affected by the SSI, III. details of management measures to be implemented to prevent and minimise impacts on heritage items including measures to protect unaffected sites during construction works in the vicinity, IV. details of the Interpretation Plan as required by condition E17; V. details of monitoring and reporting requirements for impacts on heritage items; VI. procedures for dealing with previously unidentified heritage items, (including cessation of works in the vicinity), assessment of the significance of the item(s) and determination of appropriate mitigation measures including when works can re-commence by a suitably qualified and experienced archaeologist in consultation with the Heritage Division, and assessment of the consistency of any new heritage impacts against the approved impacts of the SSI; (iii) heritage training and induction processes for construction personnel (including procedures for keeping records of inductions) and obligations under the conditions of this approval including site identification, protection and conservation of Aboriginal and historic heritage; and (iv) mechanisms for the monitoring, review and amendment of this Plan.	Compliant	Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the Construction Non-Indigenous Heritage Management Plan (CNIHMP; Aurizon, Revision 1, 5/09/2022) was sighted. The CNIHMP addressed each of the requirements listed, as follows: I. Section 1 II. Section 2 III. Table 3.1 IV. Section 4.1 V. Table 3.1 VI. Table 3.1 (iii) Table 3.1 (iv) Section 4.2.1 (and Section 4.2.2).	
E63(f)	A <b>Construction Contamination Management Plan</b> to detail how contaminated materials, water and soil will be managed to protect human health and the environment. The Plan shall include, but not necessarily be limited to: (i) location of areas identified as contaminated; (ii) procedures for the sampling and assessment of excavated material at depth consistent with the requirements of condition E30; (iii) procedures for the sampling and testing of ballast, chitter and tailings consistent with the requirement of condition E32; (iv) procedures for the classification, remediation, handling and monitoring of contaminated materials, water and soils identified during construction (including asbestos), consistent with the Remediation Action Plan included as Appendix H in the document referred to in condition B1(c); (v) a contingency plan to be implemented in the case of unanticipated discovery of contaminants; (vi) a procedure for updating the Remediation Action Plan consequent to amendments in the remediation procedures or the discovery of contaminants during construction; (vii) program for validating soil quality upon completion of remediation; and (viii) mechanisms for the monitoring, review and amendment of this Plan. <b>Prior to construction of the Turning Angle Works, the Proponent must submit revised plans including the Turning Angle Works to the Environmental Representative for approval. The ER may approve minor updates to the plan without further consultation with public authorities. The plans required by Condition E63(e) only apply to the Turning Angle Works insofar as they provide for unexpected finds procedures and staff training and induction.</b> <b>The reference to the ecological monitoring plan referred to in condition E63(b)(viii) does not apply to the Turning Angle Works.</b>	Compliant	Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the CCMP (Aurizon, Revision 1, 10/08/2022) was sighted. The CCMP addressed each of the requirements listed, as follows: (i) Section 2.0 and Annexure 2 (ii) Section 2.1.5 (iii) Not Applicable (iv) Section 2.1, 2.2 and 5.0 (v) Section 2.1 and Table 3.1 (vi) Section 2.1 and 5.2 (vii) Section 2.1.2, 2.1.3, 2.1.4, 2.1.5 and 2.1.6 (viii) Section 5.5	
Schedule F Operational Environmental Management				
Operational Environmental Management				
F1	Prior to commencement of operations, the Proponent shall incorporate the SSI into an existing environmental management system administered by the Proponent and prepared in accordance with the <i>AS/NZS ISO 14000 Environmental Management System</i> series or equivalent.	Compliant	Aurizon's company-wide EMS governs the site management plans, and is generally consistent with the ISO 14000 group of standards. The Operational Environmental Management Plan (Aurizon, Revision 12, date 8/08/2024) was updated to include Modification 2 on 1 February 2023.	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
F2	<p>Prior to the commencement of operation, or as otherwise agreed by the <b>Planning Secretary</b>, the Proponent shall prepare and implement an Operation Environmental Management Plan for the SSI. The Plan shall detail the environmental management framework, practices and procedures to be followed during operation of the SSI. The Plan shall be consistent with the document Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004). The Plan shall be prepared in consultation with the relevant government authorities and include, but not necessarily be limited to:</p> <ul style="list-style-type: none"><li>a) a description of all relevant activities to be undertaken during operation of the SSI;</li><li>b) statutory and other obligations that the Proponent is required to fulfil during operation including all approvals, consultations and agreements required from authorities, and key legislation and policies;</li><li>c) details of how the SSI's environmental performance will be monitored and what actions will be taken to address identified adverse environmental impacts;</li><li>d) where required, measures to monitor and maintain biodiversity offset measures implemented in accordance with condition C4 of this approval;</li><li>e) measures to monitor and maintain the effectiveness of flora and fauna management measures, including revegetated areas, landscaped areas and the control of the spread of weeds;</li><li>f) measures to monitor and manage noise impacts;</li><li>g) measures to monitor and control soil erosion and the discharge of sediment and other pollutants to surrounding lands and waterways;</li><li>h) procedures for periodic monitoring of groundwater depth and flow and groundwater quality in the vicinity of the SSI and groundwater seepage, including the location and frequency of monitoring;</li><li>i) a contingency plan to address changes in groundwater depths and flows and/or groundwater quality and groundwater seepage into the drainage swales;</li><li>j) measures to monitor and manage hazards and risks;</li><li>k) management and maintenance measures for the floating wetlands, and for the entire stormwater system, including pits and pipes, cess drains, sediment basins, gross pollutant traps and detention basins;</li><li>l) management measures for maintaining the Purgatory Creek culvert;</li><li>m) emergency management procedures;</li><li>n) measures for maintaining the stormwater management system including the drainage swales; and</li><li>o) measures to minimise dust generation from internal service roads.</li></ul> <p>The Plan shall be submitted for the <b>Planning Secretary's</b> approval no later than one month prior to the commencement of operation, or as otherwise agreed by the <b>Planning Secretary</b>. Operation of the SSI shall not commence until written approval has been received from the <b>Planning Secretary</b>.</p> <p><b>Prior to construction of the Turning Angle Works, the Proponent must provide a copy of the revised plan including the Turning Angle Works to the Environmental Representative for approval. The ER may approve minor updates to the plan without further consultation with public authorities.</b></p> <p>Nothing in this condition precludes the Proponent from updating an existing Operational Environment Management Plan, (environmental) management system, existing policies and/or procedures to meet this requirement, providing the Operational Environment Management Plan demonstrates, to the satisfaction of the <b>Planning Secretary</b>, where the relevant conditions of this approval have been addressed.</p> <p><i>Note: The approval of an Operation Environmental Management Plan does not relieve the Proponent of any requirement associated with this SSI approval. If there is an inconsistency with an approved Operation Environmental Management Plan and the conditions of this SSI approval, the requirements of this SSI approval prevail.</i></p>	Compliant	<p>Modification 2 operation commenced on 7 August 2023. A letter confirming DPE approval (DPE, ref. SSI-6090-PA-60, date 13/06/2023) of the Hexham TSF Environmental Management Plan (Aurizon, Rev 12, date 8/08/2024) was sighted (noting that the version available for review at the time of DPE approval was Revision 11, date 1/02/2023).</p> <p>Revision 12 of the Hexham TSF Environmental Management Plan addressed each of the requirements listed, as follows:</p> <ul style="list-style-type: none"><li>(a) Section 1.2</li><li>(b) Section 1.3 and 2.3</li><li>(c) Section 4.0</li><li>(d) Not Applicable, refers to BDAR Waiver Request</li><li>(e) Refers to FFMP</li><li>(f) Section 3.3</li><li>(g) Refers to SWMP</li><li>(h) Section 4.0 and refers to SGMP</li><li>(i) Section 4.0 and refers to SGMP</li><li>(j) Appendix C</li><li>(k) Refers to SWMP</li><li>(l) Refers to SWMP</li><li>(m) Section 5.0 and refers to FEMP</li><li>(n) Section 4.0 and refers to SWMP</li><li>(o) Section 3.4</li></ul>	
Operational Performance				
F3	<p>Within 15 months of the completion of construction of the SSI, or as otherwise agreed by the Director-General, the Proponent shall commission an independent, qualified person or team to undertake an <b>Operational Performance Audit</b> of the SSI. The independent person or team shall be approved by the Director-General prior to the commencement of the Audit. The Operational Performance Audit Report shall be submitted to the Director-General within one month of the completion of the Audit, unless otherwise agreed by the Director-General. The Audit shall:</p> <ul style="list-style-type: none"><li>a) assess compliance with the requirements of this approval, and other licences and approvals that apply to the SSI;</li><li>b) assess the operational performance of the SSI against the predictions made and conclusions drawn in the documents referred to under condition B1 of this approval; and</li><li>c) (c) review the effectiveness of the environmental management of the SSI, including any environmental impact mitigation works.</li></ul>	Not Triggered	<p>Not Triggered. As per condition B4A, this condition is not applicable to Modification 2 works.</p>	
Noise and Vibration				
F4	<p>The Proponent shall undertake a noise and vibration compliance assessment to confirm the predictions of the noise assessment included at B1 and the limits referred to in condition C2. The noise and vibration compliance assessment shall be developed in consultation with the EPA and be undertaken within 12 months of the commencement of operation of the SSI, or as otherwise agreed by the Planning Secretary. The assessment shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"><li>a) noise and vibration monitoring and compliance assessment, to assess compliance with conditions C1 and C2 of this approval;</li><li>b) methodology for assessment, including the assessment of worst-case scenarios;</li><li>c) details of any complaints received relating to operational noise and vibration impacts;</li><li>d) any required recalibration of the noise and vibration model;</li></ul>	Compliant	<p>Construction Compliance Report 1 (Aurizon, Revision 1, 1/06/2023) and CCR 2 (Aurizon, Revision 1, 31/07/2023) stated that this condition was fulfilled by an assessment report submitted as part of 2017 Annual Compliance Tracking report. The IEA 2021 report (SLR, 2022) stated that a noise assessment completed after the Turning Angle Works concluded the project was compliant with the noise and vibration approval conditions.</p>	



Condition Number	Condition	Compliance Status	Evidence	Recommended Action
	<p>e) consideration of the cumulative noise and vibration impacts associated with the Project and the proposed ARTC Hexham Relief Roads project;</p> <p>f) consideration of noise impacts to the Hexham Swamp Reserve with reference to the passive recreation criteria under the INP;</p> <p>g) an assessment of the performance and effectiveness of the applied noise and vibration mitigation measures; and</p> <p>h) identification, if required, of further noise and vibration mitigation measures to meet the requirements of C1 and C2 of this approval.</p> <p>A Noise and Vibration Compliance Assessment Report providing the results of the assessment shall be submitted to the Planning Secretary and the EPA within 60 days of its completion. If the assessment indicates an exceedance of the noise and vibration objectives identified, the Proponent shall implement further feasible and reasonable measures (where required) to mitigate these exceedances in consultation with affected property owners. If there is a dispute regarding the implementation of at-receiver treatments, either party may refer the matter to the Planning Secretary for resolution whose decision shall be final.</p>		<p>Hexham Long Term Train Support Facility Ancillary Depot and Wagon Storage Noise Impact Assessment (SLR, date 4/03/2022) was undertaken prior to Modification 2 construction activities. This assessment concluded that construction noise impacts are predicted to be below relevant Noise Management Levels (NMLs, for construction) and Project Approval (operation) noise limits at all receivers. Based on the nature of the Modification 2 works and operations, no significant noise sources have been added to the site.</p> <p>During the site inspection, it was confirmed that no complaints were received during the audit period. No assessment was completed during construction or operation in the audit period to check that no exceedances of NMLs occurred, as no complaints were received.</p>	
F4A	The Proponent shall undertake a noise and vibration compliance assessment, consistent with the requirement of condition F4 to include the Turning Angle Works within 12 months of the commencement of operation of the Turning Angle Works.	Not Triggered	This condition is not applicable to Modification 2.	
Flooding				
F5	<p>A Flood Review Report shall be prepared following each of the following flood events at the SSI site – 1%, 2%, 5% and 10% AEP flood events to assess the actual flood impacts against those predicted in Appendix D of the Preferred Infrastructure Report referred to in condition B1(c) and the Modification Report referred to in condition B1(d). The Report shall be prepared by an appropriately qualified person(s) and include:</p> <p>a) Identification of the properties and infrastructure affected by flooding during the reportable event;</p> <p>b) A comparison of the actual extent, level and duration of the flooding event against the impacts predicted in Appendix D of the document referred to in condition B1(c);</p> <p>c) Where the actual extent and level of flooding exceeds the predicted level with the consequent effect of adversely impacting on property(ies), structures and infrastructure, identification of the measures to be implemented to reduce future impacts of flooding including the timing and responsibilities for implementation.</p> <p>Flood mitigation measures shall be developed in consultation with the affected property/structure/infrastructure owners, the Water Group and City of Newcastle.</p>	Not Triggered	No flood events occurred during the audit period, therefore, no flood review reports were triggered.	





Table B2 - SSI-6090 (formerly MP07\_0171) Statement of Commitments

The consolidated statement of commitments assessed below are as described in Environmental Assessment, NSW Train Support Facility, Maitland Road, Hexham (ADW Johnson Pty Limited, 2012), and as updated in Preferred Project Report and Response to Submissions Project Application (MP07\_0171) (JBA, 2013).

Issue	Commitment	Compliance Status	Evidence	Recommended Action
Final Statement of Commitments				
Plans, Documentation and Approvals	Construction and operation of the TSF will be undertaken in accordance with the submitted plans and the description of the proposed development provided in Environmental Assessment as amended by the Preferred Project Report.	Compliant	Based on site inspection and the audit findings presented in this table, the Modification 2 works completed at Hexham during the audit period have generally been undertaken in accordance with the Conditions of Approval, Statements of Commitments and Environmental Assessments.	
	All licences, permits and approvals required by law to construct and operate the TSF will be obtained and maintained as required.	Compliant	See Table B1, Condition B6	
	Operation of the TSF will be undertaken in accordance with the Environmental Management Plan (EMP). The EMP will address all measures to be implemented to minimise and manage potential environmental impacts during the operation of the TSF. The EMP will include the following plans:  a) Conservation Management Plan; b) Waste Management Plan; c) Traffic Management Plan; d) Stormwater Management Plan; e) Erosion and Sediment Control Plan; f) Flood Emergency Management Plan; g) Water Quality Management Plan; h) Acid Sulphate Soil Management Plan; and i) Aboriginal Cultural Heritage Management Plan.	Compliant	Operation of Modification 2 was undertaken in accordance with the Hexham TSF Environmental Management Plan (Aurizon, Revision 12, date 8/08/2024). The Hexham TSF Environmental Management Plan includes the elements listed in this requirement as: a) Not applicable, a biodiversity offset package was approved by DPE (DPE, ref. SSI_07_0171, date 23/06/2016) and endorsed by the Office of Environment & Heritage (OEH, ref. DOC16/52081-1, date 13/04/2016). b) Waste Management Plan (Aurizon, Revision 8, date 9/08/2024) c) Section 3.5 d) Stormwater Management Plan (Aurizon, Revision 12, date 9/08/2024) e) Stormwater Management Plan (Aurizon, Revision 12, date 9/08/2024) f) Flood Emergency Management Plan (Aurizon, Revision 11, date 8/08/2024) g) Surface and Groundwater Monitoring Plan (Aurizon, Revision 12, date 9/08/2024) h) Site Management Plan (Aurizon, Revision 4, date 12/8/2024) i) Section 3.6	
Construction	Construction of the TSF will be undertaken in accordance with the Construction Environmental Management Plan (CEMP). The CEMP will outline the environmental mitigation measures to be implemented during the construction phase and will document mechanism for demonstrating compliance with the relevant approvals. The CEMP will include the plans that address the following: a) construction traffic management; b) construction noise and vibration management; c) construction stormwater management; d) water quality and soil management; e) groundwater management; f) flora, fauna and weed management; g) non-indigenous and indigenous heritage management; h) aboriginal heritage management; i) community liaison; j) hazards and risk management; k) acid sulphate soils management; l) spoil management; m) waste management; and n) air quality management.	Not Triggered	TSF construction was completed prior to this audit period. Construction Environmental Management Plans for Modification 2 were approved by DPE (DPE, ref SSD-6090-46, date 21/10/2022).	
	Construction activities associated with the TSF will be undertaken during the following hours: a) Monday to Friday (inclusive) – 7:00am to 6:00pm b) Saturday – 8:00am to 1:00pm c) Sundays and public holidays – No works to be undertaken at any time	Compliant	Refer Table B1, conditions E18 and E20.	



Issue	Commitment	Compliance Status	Evidence	Recommended Action
	<p>Where construction works are required to be undertaken outside of the standard construction hours, the following measures will be implemented:</p> <ul style="list-style-type: none"><li>a) works will be kept to a minimum; and</li><li>b) where feasible noise generating works would be scheduled to be completed outside of the 10:00pm to 7:00am night time period.</li></ul>	Not Triggered	Refer Table B1 condition E18. No out of hours works required for Modification 2 construction.	
<b>Ecology</b>	<p>The Construction Environmental Management Plan will include the ecological management measures / procedures set out in the Ecological Investigations report, as follows:</p> <ul style="list-style-type: none"><li>a) Site-specific environmental induction for all staff.</li><li>b) Identification of clearing limits and avoiding the storage of materials and vehicles under the drip line of retained vegetation.</li><li>c) Ecological surveys will be undertaken prior to clearing or filling of the wetland to minimise impacts on threatened and endangered species and ensure that direct impacts to flora and fauna are avoided.</li><li>d) When clearing vegetation timber, particularly sections with hollows will be retained as Coarse Woody Debris for enhancement of the Northern Offset area.</li><li>e) Cease work immediately if any previously unknown threatened flora or fauna species are encountered. WIRES should be consulted if any injured fauna are encountered.</li><li>f) Provide appropriate controls to manage exposed soil surfaces and stockpiles to prevent erosion and subsequent sediment discharge into surrounding wetlands.</li><li>g) Clearly identify stockpile and storage locations and provide erosion and sediment controls around stockpiles.</li><li>h) Stockpiles of topsoil to be stored in windrows no higher than 2m and be maintained free of weeds.</li><li>i) Undertake dust suppression where required in accordance with the Protection of the Environment Operations Act 1997 (POEO Act) where there is a risk of increased dust outside of acceptable levels</li><li>j) Establish and implement a Hygiene Protocol for vehicles entering and leaving the site to minimise spread of weeds and other biological risks such as alligator weed.</li><li>k) Develop a monitoring program during construction (including a weekly checklist) to ensure that all mitigation measures proposed have been undertaken. The checklist should include items such as fencing and sediment and erosion control.</li></ul>	Not Triggered	<p>TSF construction was completed prior to this audit period. A biodiversity offset package was approved by DPE (DPE, ref. SSI_07_0171, date 23/06/2016) and endorsed by the Office of Environment &amp; Heritage (OEH, ref. DOC16/52081-1, date 13/04/2016).</p> <p>Construction Flora and Fauna Management Plan (CFFMP; Aurizon, Revision 1, date 9/09/2022) was prepared for Modification 2 works and approved by DPE (DPE, ref SSD-6090-46, date 21/10/2022).</p>	
	<p>A Conservation Management Plan will be prepared and implemented in accordance with the NP&amp;W Act for management of the offset areas. The Conservation Management Plan will include:</p> <ul style="list-style-type: none"><li>a) strategies to avoid or minimise impacts to flora and fauna;</li><li>b) procedures to monitor and control weeds (with special methods for eradicating alligator weed);</li><li>c) measures to prevent erosion and sediment control procedures, which will also be incorporated into the Erosion and Sediment Control Plan;</li><li>d) monitoring of frog ponds;</li><li>e) strategies to minimise the impact of the access route through Proposed Offset Area 2; and</li><li>f) contingency procedures or corrective actions to be followed should monitoring indicate that the identified objectives and outcomes are not being achieved.</li></ul>	Not Triggered	TSF construction was completed prior to this audit period. A biodiversity offset package was approved by DPE (DPE, ref. SSI_07_0171, date 23/06/2016) and endorsed by the Office of Environment & Heritage (OEH, ref. DOC16/52081-1, date 13/04/2016).	
	<p>The management of the Southern Offset Area will include:</p> <ul style="list-style-type: none"><li>a) the establishment and fencing of the conservation area;</li><li>b) entering into an appropriate arrangement for the security of the offset area such as a Voluntary Conservation Agreement;</li><li>c) management of habitat for existing terrestrial and aquatic, flora and fauna species; and</li><li>d) an annual monitoring program for the first five years.</li></ul>	Not Triggered	TSF construction was completed prior to this audit period. A biodiversity offset package was approved by DPE (DPE, ref. SSI_07_0171, date 23/06/2016) and endorsed by the Office of Environment & Heritage (OEH, ref. DOC16/52081-1, date 13/04/2016).	



Issue	Commitment	Compliance Status	Evidence	Recommended Action
	<p>The management of the Northern Offset Area will include:</p> <ul style="list-style-type: none"> <li>a) improving the condition of the Swamp Oak Forest and the Coastal Floodplain Sedgeland; and</li> <li>b) entering into an appropriate arrangement for the security of the offset area such as a Voluntary Conservation Agreement; and</li> <li>c) construction of the access route through the Northern Offset Area in a manner that minimises the impact on threatened and endangered species.</li> </ul>	Not Triggered	TSF construction was completed prior to this audit period. A biodiversity offset package was approved by DPE (DPE, ref. SSI_07_0171, date 23/06/2016) and endorsed by the Office of Environment & Heritage (OEH, ref. DOC16/52081-1, date 13/04/2016).	
<b>Traffic, Access and Car Parking</b>	<p>A Construction Traffic Management Plan will be prepared and implemented, which will outline:</p> <ul style="list-style-type: none"> <li>a) the safe access routes to and from site;</li> <li>b) vehicle parking areas during construction;</li> <li>c) appropriate signage requirements;</li> <li>d) construction activities that will result in the disruption of traffic and the arrangements for traffic management; and</li> <li>e) methods to minimise impacts associated with construction activities.</li> </ul>	Not Triggered	TSF construction was completed prior to this audit period. A Construction Traffic Management Plan (CTMP; Aurizon, Revision 1, date 6/09/2022) was prepared for Modification 2 and approved by DPE (DPE, ref SSD-6090-46, date 21/10/2022).	
	A new T-intersection will be constructed on the Tarro Interchange with a sheltered right turn lane that will be able to accommodate the site access road.	Not Triggered	TSF construction was completed prior to this audit period. Commitment not relevant to Modification 2 works.	
	An access road connecting the Tarro Interchange with the TSF will be constructed.	Not Triggered	TSF construction was completed prior to this audit period. Commitment not relevant to Modification 2 works.	
	Road construction and associated drainage works will comply with relevant Newcastle City Council and Roads & Maritime Services standards.	Not Triggered	TSF construction was completed prior to this audit period.	
	Dedicated onsite parking will be provided adjacent to the offices and amenities and on hardstand areas adjacent to main work areas. The facility car park will have 38 parking spaces including two disabled spaces.	Not Triggered	TSF construction was completed prior to this audit period. Additional car parking was provided adjacent to the new Depot and Warehouse as part of Modification 2 works, as part of the approved development.	
<b>Flooding</b>	A Flood Emergency Management Plan will be prepared which provides mitigation and management measures to be implemented in the event of a flood on site.	Compliant	The FEMP (Aurizon, Revision 11, date 8/08/2024) includes mitigation and management measures for flooding at Hexham.	
	The TSF will be constructed using flood compatible material and site power facilities will be place above the 1% AEP flood levels.	Compliant	As stated in Construction Compliance Report 1 (Aurizon, Revision 1, 1/06/2023) and CCR 2 (Aurizon, Revision 1, 31/07/2023), all Hexham Depot infrastructure and other TSF associated electrical supply and signalling is above the 1% AEP inclusive of 250mm freeboard. Note: See Table B1, Condition C14	
<b>Surface and Groundwater Monitoring</b>	The Stormwater management Plan prepared by Worley Parson's forms part of this project and the management, monitoring and maintenance requirements set out in that plan will be implemented. The Plan will be reviewed and updated as part of the detailed design process.	Not Triggered	TSF construction was completed prior to this audit period. A letter confirming DPE approval of the updated Operational Environmental Management Plans (which includes a Stormwater management Plan) for Modification 2 was sighted (DPE, ref SSI-6090-PA-60, date 13/06/2023).	
	A Construction Water Quality Management Plan will be prepared and implemented as part of the CEMP once the final construction methodology is confirmed. The Plan will identify a range of preventative, treatment and contingency measures for the construction phase of the TSF project including further details regarding appropriate erosion and sediment controls to be implemented at discharge locations and spillways to prevent the discharge of sedimentation during construction. Stormwater management measures for the construction phase will be developed in accordance with the Landcom 'Blue Book' and incorporated in the Construction Environmental Management Plan prior to the commencement of construction.	Not Triggered	TSF construction was completed prior to this audit period. A Construction Soil and Water Management Plan (Aurizon, Revision 1, date 12/09/2022) was prepared for the Modification 2 works and approved by DPE (DPE, ref SSD-6090-46, date 21/10/2022).	
	<p>Surface water and groundwater monitoring will be undertaken prior to the commencement of construction to:</p> <ul style="list-style-type: none"> <li>a) establish existing water quality baselines;</li> </ul>	Not Triggered	TSF construction was completed prior to this audit period. An email confirming DPE receipt (from: no-reply@majorprojects.planning.nsw.gov.au, to: Harry Egan, subject: Hexham Train Facility - Hexham Water Monitoring Plan, date 23/03/2023) of the Hexham TSF	



Issue	Commitment	Compliance Status	Evidence	Recommended Action
	<div>b) identify sources of potential impact from construction operations; and</div> <div>c) determine the potential for off-site migration of contaminants through water sources.</div>		Surface and Groundwater Monitoring Plan (Aurizon, Revision 11, date 01/02/2023) was sighted.	
	Areas of high sediment, oil & grease and nutrient loads will be separated from the stormwater system (e.g. wash bays, provisioning sheds, servicing sheds). These areas will be treated separately and discharged to trade waste or for re-use in wash down.	Compliant	TSF construction was completed prior to this audit period. The provisioning shed, CMF and train wash bays are situated inside roofed areas with internal drainage capture pits. No additional pollutant sources added as part of Modification 2 works.	
	Gross Pollutant Traps (GPTs) will be utilised to provide primary screening of stormwater. A secondary system of GPTs will be located at the outlet of each Water Quality Control Pond as a final barrier to remove suspended solids, remaining floating debris and hydrocarbons.	Compliant	Modification 2 is also managed under the site surface water management system. The current version of the Stormwater Management Plan (Aurizon, Revision 12, date 9/08/2024) includes Modification 2. Design drawings for the three stormwater sedimentation basin and wetland were sighted. The Basin 3 outlet was sighted during the inspection.	
	Access roads will be constructed with road side swales to provide treatment through flow attenuation and sedimentation of suspended sediments.	Not Triggered	TSF construction was completed prior to this audit period. No additional access roads constructed for Modification 2 works. New internal carparking and traffic routes constructed with kerb and channel drainage.	
	<div>Surface water and groundwater monitoring will be regularly undertaken during the ongoing operation of the TSF to:</div> <div>a) identify any change in water quality; and</div> <div>b) determine the appropriate treatment strategies to be implemented to maintain or improve water quality.</div> <div>The water monitoring program for the TSF project will include monitoring of changes in hydrological regime associate with discharges to catchment 2 (which contains the Swamp Oak Forest EEC) in the northwest and to Catchment 5 (which contains the Coastal Saltmarsh EEC) to the south. Further opportunities will be investigated to manage stormwater flows on the site to assist in creating favourable water flows and levels that support rehabilitated and offset areas of significant ecological value.</div>	Compliant	<div>The Surface and Groundwater Monitoring Plan details the monitoring scope at Hexham. An email confirming DPE receipt (from: no-reply@majorprojects.planning.nsw.gov.au, to: Harry Egan, subject: Hexham Train Facility – Hexham Water Monitoring Plan, date 23/03/2023) of Revision 11 of the Surface and Groundwater Monitoring Plan, dated 1 February 2023 was provided.</div> <div>The Soil and Water Management Plan (Aurizon, Revision 1, date 12/09/2022) details monitoring locations that target catchment 2 (Swamp Oak Forest EEC). Results from these monitoring locations are included in the 2021 (GHD, date 2/03/2022), 2022 (GHD, date 21/02/2023), and 2023 (GHD, date 8/03/2024) annual monitoring reports. The S&amp;WMP states that no change to infrastructure associated with the Site have been made which would impact on tidal flushing of Coastal Salt Marsh areas. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the S&amp;WMP (Aurizon, Revision 1, date 12/09/2022) was sighted.</div>	
Effluent Disposal	A wastewater system for effluent disposal will be established.	Compliant	<div>The Stormwater Management Plan (Aurizon, Revision 12, date 9/08/2024) includes details of the established wastewater systems at Hexham. A contactor (Hydrocon) manages the Dissolved Air Flotation (DAF) plant and septic wastewater treatment plant (WWTP).</div> <div>At the time of the site inspection, the WWTP was not operating due to a fault in circuit boards, which were subsequently replaced. The biological treatment stage had also been adversely affected in pre-ceding months, with the cause identified as a cleaning chemical brought to site by new cleaning contractors (per September 2024 monthly field service report). The WWTP was subsequently re-seeded. Effluent quality had been adversely affected by the WWTP issues. The effluent was reported to have been pumped to the wet weather holding dam pending resolution of treatment issues.</div> <div>Review of selected monthly Hydrocon Field Service Reports from October 2021 to September 2024 indicates regular process for preventative and reactive maintenance.</div>	<b>OFI 6:</b> Review the sites process for approval of chemicals brought to site by Contractors, to ensure the chemicals and intended usage do not adversely impact environmental control equipment such as the Dissolved Air Flotation Unit or the Wastewater treatment plant.
	A recycle system for wash down water will be established.	Compliant	Wash down water generated at the CMF is recycled through a Dissolved Air Flotation treatment system and reused at the CMF. Sighted treatment plant and online process control system during the inspection. The Stormwater Management Plan (Aurizon, Revision 12, date 9/08/2024) includes details of the established wastewater systems at Hexham.	
	<div>An irrigation area with the following site improvements will be established:</div> <div>a) removal of the concrete hardstand and footings in the central portion of the site, or placement of 0.5m of suitable clay loam fill material over concrete;</div> <div>b) addition of lime to acidic soils to maintain plant growth;</div> <div>c) addition of gypsum to improve the soil structure and reduce dispersion/erosion;</div> <div>d) earthworks to recontour and fill drainage channels and redirect surface water flow around the proposed irrigation area (meeting buffer distance requirements);</div>	Compliant	<div>The Stormwater Management Plan (SWMP) (Aurizon, Revision 12, date 9/08/2024) includes details of the established wastewater system at Hexham. This includes a package sewage treatment plant (WWTP Septic System) and a treated effluent irrigation area. An additional buffer storage pond was constructed for contingency storage of treated effluent for wet weather. The SWMP includes the details in this commitment.</div> <div>During the site inspection, part of the irrigation area was inspected. It was noted that there was no clearly observable catch drain or bund down-slope of the irrigation area in the event that excess irrigation water was to run-off. Aurizon was unable to provide as built drawings to confirm the contours and design intent met commitment (g).</div>	<b>OFI 7:</b> Aurizon should confirm the grading and use of the irrigation area is such that any run-off can be captured (i.e. through infiltration). The installation of catch bunds to capture run-off should be reconsidered as part of any future works that may increase the volume of treated effluent applied to the irrigation area.





Issue	Commitment	Compliance Status	Evidence	Recommended Action
	<p>e) where required, placement of suitable fill or earthworks to raise site levels to at least 1m above the permanent groundwater table and/or at least 0.6m between the highest seasonal water table level and the base of the irrigation areas (whichever is the greater);</p> <p>f) importation and placement of a suitable clay loam fill to form the surface of the irrigation area to improve soil properties and minimise the potential for the groundwater pollution; and</p> <p>g) installation of catch drains/bunds upslope and downslope of the irrigation area to prevent rainfall run-on and runoff.</p>		Discussion with Aurizon's wastewater treatment contactor Hydrocon indicated that the irrigation area has 10 zones which are rotated through, and that the volume irrigated is less than the original design. Example monthly Hydrocon monthly field service reports sighted (samples viewed from October 2021 to September 2024) which recorded between 60 - 95 kL/month (approximately) wastewater irrigated. The SWMP indicates the irrigation area was designed for 12,960 L/day, therefore typical irrigation volumes are only a third of that planned for. Hydrocon advised that larger volumes may occur – but were attributable to wet weather events, or a leak or running tap at facilities.	
	Dewatering licences will be obtained in respect of the sewer installations where required.	Not Triggered	TSF construction was completed prior to this audit period. No dewatering applicable to Modification 2 works.	
	Rainwater tanks will be installed to top up the recycled water system.	Compliant	The Stormwater Management Plan (SWMP) (Aurizon, Revision 12, date 9/08/2024) states that there are 2x10kL rainwater tanks to supplement the recycled water. Rainwater tanks sighted at the DAF plant.	
<b>Contamination</b>	<p>Remediation will be carried out in accordance with the Remedial Action Plan to:</p> <p>a) remediate hydrocarbon contamination present in fill material;</p> <p>b) remove by localised excavation those hydrocarbon impacted soil associated with former fuel tank (Pit 128) and the former refuelling area (Bore 102 and Pit 128); and</p> <p>c) Asbestos from within buildings to be demolished, and asbestos containing soils, will be removed for disposal in appropriate licenced landfill facilities. Asbestos will be removed by a suitably licenced contractor in accordance with WorkCover requirements.</p>	Not Triggered	TSF construction was completed prior to this audit period. No further remediation required as part of Modification 2 works.	
<b>Acid Sulphate Soils</b>	The ASSMP prepared by Douglas Partners forms part of the project. The ASSMP will be updated following further soil sampling and validation of ASS, and the confirmation of construction methodology.	Not Triggered	<p>TSF construction was completed prior to this audit period. Refer to assessment for ASS in Table B4.</p> <p>As stated in CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023), no acid sulfate soils were encountered during Modification 2 construction.</p> <p>GHD completed soil characterisation works prior to Mod 2 construction, the results of which indicated that no PASS was present (Hexham Depot – Acid Sulfate Soil Testing, GHD, date 28 November 2022).</p>	
<b>Aboriginal Archaeology</b>	The persons responsible for the management of works on site will ensure that all staff, contractors and others involved in construction and maintenance related activities are made aware of the statutory legislation protecting sites and places of significance. Of particular importance is the National Parks and Wildlife Amendment (Aboriginal Objects and Aboriginal Places) Regulation 2010, under the National Parks and Wildlife Act 1974.	Not Triggered	<p>TSF construction was completed prior to this audit period. Not triggered for Modification 2 works. Refer to Table B1 conditions C22 and C23.</p> <p>The Construction Aboriginal Heritage Management Plan (Revision 1, date 10/08/2022), prepared for the Depot Relocation, includes Appendix C - Aurizon Aboriginal Cultural Heritage New Find Procedure.</p>	
	The involvement of the registered Aboriginal stakeholders in the ongoing management of the Aboriginal cultural materials within the project study should be promoted and included in the Environmental Management Plan and the Aboriginal Heritage Management Plan.	Not Triggered	TSF construction was completed prior to this audit period. Not triggered for Modification 2 works. Refer to Table B1 conditions C22 and C23.	
	A cultural awareness program will be included as part of the site induction program and developed with the registered Aboriginal stakeholders (where appropriate) and form part of the Environmental Management Plan and/or the Aboriginal Heritage Management Plan.	Not Triggered	TSF construction was completed prior to this audit period. Not triggered for Modification 2 works. Refer to Table B1 conditions C22 and C23.	
<b>European Heritage</b>	A Construction Non-Indigenous Cultural Heritage Management Plan will be prepared and implemented, which will set out the mitigation and management strategies to be implemented to minimise potential impacts to European heritage items.	Not Triggered	TSF construction was completed prior to this audit period. Not triggered for Modification 2 works. Refer to Table B1 conditions C22 and C23.	
	Serviceable bricks from the Control Box will be salvaged and appropriately reused in a symbolic linkage of the past and proposed uses of the place.	Not Triggered	TSF construction was completed prior to this audit period. Not triggered for Modification 2 works. Refer to Table B1 conditions C22 and C23.	



Issue	Commitment	Compliance Status	Evidence	Recommended Action
	A plaque providing details of the site's heritage will to be located on the site.	Not Triggered	TSF construction was completed prior to this audit period. Not triggered for Modification 2 works. Refer to Table B1 conditions C22 and C23.	
	An Excavation Director, with appropriate experience will be appointed prior to any excavation within the vicinity of the junction of the Minmi to Hexham Railway and the Great Northern Railway.	Not Triggered	TSF construction was completed prior to this audit period. Not triggered for Modification 2 works. Refer to Table B1 conditions C22 and C23.	
	The Excavation Director will advise on archaeological matters associated with the excavation and will ensure compliance with procedures to be adopted in the event of unexpected finds and measures for protecting heritage items that are to be conserved.	Not Triggered	TSF construction was completed prior to this audit period. Not triggered for Modification 2 works. Refer to Table B1 conditions C22 and C23.	
	All archaeological deposits, features and relics that are exposed during the works associated with the proposed TSF will be recorded in accordance with Heritage Branch guidelines.	Not Triggered	TSF construction was completed prior to this audit period. Not triggered for Modification 2 works. Refer to Table B1 conditions C22 and C23.	
<b>Noise and Vibration</b>	A Construction Noise Management Plan (CNMP) will be prepared and implemented prior to commencement of construction works at the site. The CNMP will include the following: a) construction noise goals; b) specific practical, feasible and reasonable measures for controlling noise, noise and vibration monitoring programs and reporting procedures; and c) mechanisms to provide ongoing community liaison.	Not Triggered	TSF construction was completed prior to this audit period. Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the CNVMP (Aurizon, Revision 1, 6/09/2022) was sighted.	
	Equipment will be kept well maintained to prevent unnecessary noise and vibration.	Not Triggered	TSF construction was completed prior to this audit period. Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the CNVMP (Aurizon, Revision 1, 6/09/2022) was sighted.	
	When noisy operations associated with construction activities must be carried out: a) Australian Standard 2436-1981 'Guide to noise control on construction, maintenance and demolition sites' will be followed when relevant; b) where reasonable and feasible, noisy equipment will be sited behind structures that act as barriers or at the greatest distance from the noise-sensitive areas; and c) a responsible person will maintain liaison between the neighbouring community and the contractor.	Not Triggered	TSF construction was completed prior to this audit period. Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the CNVMP (Aurizon, Revision 1, 6/09/2022) was sighted.	
<b>Air Quality and Greenhouse Gas</b>	Activities carried out on site will be undertaken in a manner that will ensure that all equipment used, and all facilities erected, are designed and operated to control the emission of smoke, dust, fumes and other pollutants into the atmosphere.	Not Triggered	TSF construction was completed prior to this audit period. A letter confirming DPE approval of the updated Operational Environmental Management Plans for Modification 2 was sighted (DPE, ref SSI-6090-PA-60, date 13/06/2023).	
	Measures to minimise the impact of dust generated in association with the proposed development will be implemented including: a) watering of roads and sealing of roads if required; b) stabilisation of disturbed areas as soon as possible; c) wind breaks composed of earth banks and other screens to protect areas by reducing capacity of the wind to raise dust; d) trucks entering and leaving the site will be well maintained in accordance with the manufacturer's specification to comply with all relevant regulations; e) fines may be imposed on vehicles which do not comply with smoke emission standards; f) truck movement will be controlled on site and restricted to designated roadways; g) truck wheel washes or other dust removal procedures (including covering of loads) will be installed to minimise transport of dust offsite if necessary; h) during construction if there are periods of high winds, stockpiles and exposed areas will be covered, or watered, or revegetated;	Not Triggered	TSF construction was completed prior to this audit period. Modification 2 construction commenced on 9 December 2022. A letter confirming DPE approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the Construction Air Quality Management Plan (Aurizon, Revision 1, 10/08/2022) was sighted. A letter confirming DPE approval of the updated Operational Environmental Management Plans for Modification 2 was sighted (DPE, ref SSI-6090-PA-60, date 13/06/2023).	



Issue	Commitment	Compliance Status	Evidence	Recommended Action
	<ul style="list-style-type: none"> <li>i) procedures to control dust and other emissions from construction operations and on-site equipment will be implemented;</li> <li>j) stockpiles and handling areas will be maintained in a condition which minimises windblown or traffic generated dust;</li> <li>k) construction equipment and transport vehicles will be properly maintained to ensure exhaust emissions comply with relevant regulatory requirements, and to minimise emissions;</li> <li>l) cleared vegetation, demolition, materials and other combustible waste material will not be burnt on site;</li> <li>m) silt will be removed from behind filter fences and other erosion control structures on a regular basis, to prevent it becoming a source of dust;</li> <li>n) non-essential idling of locomotives will be minimised, and locomotives with excessive smoke will be expeditiously repaired; and</li> <li>o) low sulphur diesel fuel will be used where available.</li> </ul>			
<b>Social and Economic</b>	<p>The following information will be available for community enquiries and complaints prior to and during the construction and operation of the TSF:</p> <ul style="list-style-type: none"> <li>a) a contact number on which complaints and enquiries about construction and operational activities may be registered;</li> <li>b) a postal address to which written complaints and enquiries may be sent; and</li> <li>c) an email address to which electronic complaints and enquiries may be sent.</li> </ul>	Compliant	Phone number, postal address, and email address included on Aurizon Hexham website page: <a href="https://www.aurizon.com.au/sustainability/environmental-management/hexham-train-support-facility-depot-relocation">https://www.aurizon.com.au/sustainability/environmental-management/hexham-train-support-facility-depot-relocation</a> .	
	<p>A Near Neighbour Consultation Strategy will be implemented for ongoing proactive engagement and communication with surrounding and adjoining residents. This strategy will include:</p> <ul style="list-style-type: none"> <li>a) policies which aim to increase project knowledge and develop community-staff relations; and</li> <li>b) processes to inform neighbours about access arrangements to the development site and changes to property access that may affect them.</li> </ul>	Compliant	A Community Communication Strategy (Aurizon, Revision 1, date 10/08/2022) was created for the Modification 2 works. A letter confirming DPE and Planning Secretary approval (DPE, ref. SSD-6090-46, date 21/10/2022) of the Community Communication Strategy was sighted.	
	Employment of local and regional workers will be promoted to retain and develop the local skills base. Local businesses will be utilised where possible for resources and materials for construction and operations.	Compliant	Modification 2 construction was estimated to create 50 temporary jobs and operation was estimated to create 180 employees. Aurizon staff advised during the site inspection that local business and residents are used where feasible.	
	Appropriate security protocols will be established to ensure unauthorised persons do not access the TSF site.	Compliant	During the site inspection, access to the operational area was through a security gate. Fencing sighted around paddocks.	
	Open and direct communications will be maintained with Australian Rail Track Corporation and the Hunter Valley Coal Chain Coordinator, to ensure that potential benefits of the project are maximised and negative impacts minimised.	Not Triggered	TSF construction was completed prior to this audit period. Requirement not applicable to Modification 2 works.	
<b>Waste Management</b>	<p>A Construction Waste Management Plan will be prepared prior to the commencement of construction on the site. The Construction Waste Management Plan will address the following:</p> <ul style="list-style-type: none"> <li>a) appropriate waste identification, handling, storage and disposal in accordance with the Department of Environment Climate Change and Water Guidelines; and</li> <li>b) procedures for how the different waste streams will be stored, collected and disposed of by licensed waste contractors.</li> </ul>	Not Triggered	TSF construction was completed prior to this audit period. An email confirming DPE receipt (from: <a href="mailto:no-reply@majorprojects.planning.nsw.gov.au">no-reply@majorprojects.planning.nsw.gov.au</a> , to: Harry Egan, subject: [EXTERNAL SENDER] Hexham Train Facility - Hexham TSF Waste Management Plan, date 23/03/2023) of the Waste Management Plan (Aurizon, Revision 7, date 02/02/2023) was sighted.	
	<p>An Operational Waste Management Plan will be prepared to address the ongoing handling, storage and disposal of waste. The Operational Waste Management Plan will provide:</p> <ul style="list-style-type: none"> <li>a) identification of the types of waste likely to be generated during construction;</li> <li>b) appropriate storage of waste on site;</li> <li>c) measures to minimise the amount of waste produced;</li> <li>d) measures to increase the potential for waste to be re-used and recycled;</li> </ul>	Compliant	<p>The Hexham TSF Waste Management Plan (Aurizon, Revision 8, date 9/08/2024) provides operational waste management measures for the Hexham site, and includes the requirements of this commitment as follows:</p> <ul style="list-style-type: none"> <li>a) Section 2.1</li> <li>b) Section 3.2</li> <li>c) Section 2.1</li> <li>d) Section 4.0</li> <li>e) Section 4.0</li> </ul>	



Issue	Commitment	Compliance Status	Evidence	Recommended Action
	<div>e) appropriate methods to assess if waste can be re-used, recycled or disposed to landfill; and</div> <div>f) maintaining records of waste re-use, recycling and/or disposal.</div>		<div>f) Section 5.1</div>	
	Licensed waste contractors will be made responsible for collection and appropriate disposal of waste.	Compliant	Remondis classifies and disposes of waste. Waste tracking and breakdowns of waste categories is provided in a monthly report. The January 2022 (Remondis, date 21/02/2022), December 2022 (Remondis, date 25/01/2023), July 2023 (Remondis, date 29/08/2023) and March 2024 (Remondis, date 20/04/2024) reports were provided.	
Visual	Following construction, landscaping treatment will be undertaken within the developed area of the site. Appropriate locations for landscaping treatment will be determined based on environmental, operational and safety considerations.	Not Triggered	TSF construction was completed prior to this audit period. During the site inspection, it was confirmed that existing vegetation along the property boundary was retained and that operations are generally well screened from surrounding areas.	
	Buildings will be constructed of low reflective materials and colours will be of earth tones.	Not Triggered	TSF construction was completed prior to this audit period. Proposed building materials and form were included in the Modification 2 Assessment Report - Section 5.25 Modification to SSI-6090 (formerly MP07_171) (Ethos Urban, date 8/04/2022)	
Hazardous Materials	Any hazardous materials will be stored and disposed of in accordance with WorkCover Authority requirements.	Compliant	Hazardous materials were observed to be stored appropriately during the site inspection, with the exception of several drums stored outside of bunding. Refer to Table B1, condition C24.	



Table B3 - SSI-6090 Modification 1 – Statement of Commitments

The statement of commitments (SoC) assessed below are limited to the additional mitigation and management measures recommended in State Significant Infrastructure – Modification: Detailed Environmental Assessment Report (Ethos Urban, 2019).

<https://mc-71bd5e2a-aade-4067-a0ad-8402-cdn-endpoint.azureedge.net/-/media/project/aurizon/files/sustainability/environment/hexham-turning-angle/turning-angle-assessment/ssi-6090-modification-1---environmental-assessment-report-revised-june-2019.pdf?rev=eeeead85dd6e4e5392ad9f42c0f109a5&hash=F4FCE20A2D06AFED66B2E8A382E3C97E>

Item	Commitment	Compliance Status	Evidence	Recommended Action
Summary of Additional Mod 1 Mitigation and Management Measures				
Stormwater and Water Quality				
Stormwater and Water Quality	Mitigation measures as detailed in soil assessment (GHD 2019).	Not triggered	Soil assessment (GHD 2019) is relevant to the Mod 1 (Turning Angle) development only.	
	Construct stormwater drainage of the proposal as per the design.	Not triggered	Superseded by Mod 2 SoC. Refer to Table B4.	
	Maintain the existing stormwater management system as per the existing Operational Stormwater Management Sub-Plan.	Not triggered	Superseded by Mod 2 SoC. Refer to Table B4.	
	Maintain the existing stormwater management system as per the existing Operational Stormwater Management Sub-Plan.	Not triggered	Superseded by Mod 2 SoC. Refer to Table B4.	
Contamination Management				
Acid Sulfate Soils	The ASSMP previously prepared will continue to apply to the works. See the Soil Assessment at Appendix F for specific details.	Not triggered	Superseded by Mod 2 SoC. Refer to Table B4.	
Contamination	<p>Identified contamination is to be managed in accordance with the previously approved RAP (GHD 2014) and the measures listed in the Site Management Plan (SMP)</p> <ul style="list-style-type: none"><li>Soils are to be managed in accordance with the SMP/ASSMP, which may include:<ul style="list-style-type: none"><li>Soils requiring disturbance which exhibit visual or olfactory signs of contamination or coal wash reject are to be excavated. Laboratory analysis by a NATA accredited laboratory will be required to confirm presence/absence of contamination. Prior to backfilling the excavation floor and walls will undergo validation sampling to confirm absence of contamination or if further neutralisation of coal washery reject is required.</li><li>Excavated soil which is to be transported to a different area from its existing location will also be subject to waste classification.</li></ul></li></ul> <p>If any ACM is observed during construction, work is to cease until the ACM has been disposed of to a licenced facility and the area has been cleared by an authorised consultant.</p>	Compliant	<p>The CCMP (Revision 1, date 10 August 2022) was prepared for the construction phase of the Depot Relocation (Mod 2) project. The CCMP section 2.0 summarises general contamination management and remediation measures and refers to the existing SMP for details. The SMP (Revision 4, date 12/08/2024) section 3.2 Surface Disturbance Protocol includes measures for the management of contamination that is retained onsite or impacted from surface disturbance activities.</p> <p>CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that no unexpected contamination was identified during the construction process.</p>	
Soil Salinity	<p>The following mitigation measures will be implemented to minimise potential impacts to soil salinity:</p> <ul style="list-style-type: none"><li>Earthworks will be staged where possible to minimise the time that any potentially saline subsoils are exposed.</li><li>Erosion and sediment control measures will be implemented to prevent mobilisation of any potentially saline soils.</li><li>All deep-rooted trees are to be retained where possible to minimise impacts to groundwater levels.</li></ul> <p>The surface and groundwater monitoring program currently undertaken by Aurizon is to continue. Any exceedances of the adopted conductivity performance criteria are to be investigated to determine the cause, potential impacts and feasible mitigation measures.</p>	Non-compliant (NC 7)	<p>The Construction Stormwater Management Plan (CSMP) (Revision 1, date 12 September 2022) Section 4.0 describes the erosion and sediment control management measures that were to be implemented during the construction phase of the Depot Relocation (Mod 2) project. It states that ‘<i>Civil earthworks will be constructed in a manner to minimise the extent of disturbance at any one time.</i>’</p> <p>The CEMP (Revision 1, date 10 August 2022) section 2.1 describes the construction activities and methodology, and refers to the ‘<i>installation of the diversion bund to the South to assist with stormwater runoff control.</i>’</p> <p>During the site inspection, photographs of the Depot Relocation area before clearing were sighted, showing ground cover as mainly grass. CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, 31/07/2023) state that clearing and grubbing had been completed, ‘no felling of trees... occurred during the project’ and that disturbed areas had been rehabilitated.</p>	<p><b>NC Recommendation 4:</b> Where exceedances of electrical conductivity performance criteria are identified, ensure that the monitoring data are reviewed to assess potential causes. Where Aurizon site operations are considered likely to contribute to or cause the exceedances, assessments should also consider impacts to soil salinity and feasible mitigation measures, in accordance with the SGMP. Details of the assessment should be reported in the Annual Surface and Groundwater Monitoring Report and/or Annual Operational Compliance Report.</p> <p><b>OFI 8:</b> The SGMP includes a trigger for further investigation of results based on ‘chronic exceedances’ of performance criteria, which are not defined. Consider updating the SGMP Section 3.2 to include objective trigger/action levels, for example: where chronic exceedances are identified (defined as exceedances over 3 or more consecutive monitoring events), monitoring data are to be reviewed to identify potential causes. Where Aurizon site operations are considered likely to contribute to or cause the exceedances, further assessment</p>





Item	Commitment	Compliance Status	Evidence	Recommended Action
			The Annual Water Monitoring Report 2023 (GHD, 2024) indicates that electrical conductivity in surface water and basins did not exceed the relevant performance criteria at any monitoring location, with the exception of SW9 (located off-site). Electrical conductivity in groundwater exceeded the performance criteria in several instances, and were noted to be generally increasing at 3 locations. Possible causes, impacts and mitigation measures are not discussed in the Annual Water Monitoring Report 2023 (GHD, 2024) or the OCR (2023) (Aurizon, 15 March 2024).	of potential impacts and feasible mitigation measures will be undertaken. Details of the assessment should be reported in the Annual Surface and Groundwater Monitoring Report and/or Annual Operational Compliance Report.
	Site drainage is to be designed to maintain existing levels of runoff and infiltration where possible.	Not triggered	Superseded by Mod 2 SoC. Refer to Table 4.	
Soil and Land Resources	General mitigation measures are to be implemented in accordance with Managing Urban Stormwater: Soils and Construction Volume 1 (Landcom 2004) and Volume 2 (DECC, 2008), including: <ul style="list-style-type: none"><li>Define access and no/go areas on site.</li></ul> Early installation of physical controls, including cross drainage to convey clean water around or through the site.	Compliant	The CEMP (Revision 1, date 10 August 2022) section 2.1 describes the construction activities and methodology, and refers to the <i>'installation of the diversion bund to the South to assist with stormwater runoff control.'</i> Examples of site inspection records, prepared by the construction contractor for the depot relocation project (Hutchinsons) indicate that sediment controls had been installed and that no sediment was leaving the site. Photographs attached to the CCR 1 (Aurizon, Revision 1, date 1/06/2023) include examples of sediment controls installed during construction.	
	<ul style="list-style-type: none"><li>Minimising the duration of exposed topsoil by retaining topsoil cover, grassed drainage lines and shrub cover on the soil surface for as long as possible minimising the extent of disturbed areas.</li><li>Interim stockpiling of materials (minimal permanent stockpiles).</li><li>Minimising the lengths of slopes by limiting the extent of excavations and/or using diversion drains to reduce water velocity over disturbed areas. Progressive rehabilitation or sealing of works areas.</li></ul>	Compliant	The Construction Stormwater Management Plan (CSMP) (Revision 1, date 12 September 2022) Section 4.0 describes the erosion and sediment control management measures that were to be implemented during the construction phase of the Depot Relocation (Mod 2) project. It states that <i>'Civil earthworks will be constructed in a manner to minimise the extent of disturbance at any one time.'</i> The CEMP (Revision 1, date 10 August 2022) section 2.1 describes the construction activities and methodology, and refers to the <i>'installation of the diversion bund to the South to assist with stormwater runoff control.'</i> During the site inspection, photographs of the Depot Relocation area before clearing were sighted, showing ground cover as mainly grass. CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, 31/07/2023) state that clearing and grubbing had been completed and that disturbed areas had been rehabilitated. Examples of site inspection records, prepared by the construction contractor for the depot relocation project (Hutchinsons Builders) between January and May 2023, indicate that sediment controls had been installed and that no sediment was leaving the site Photographs attached to the CCR 2 (Aurizon, Revision 1, 31/07/2023) include examples of completed landscaping. No stockpiles were observed in the Depot area during the site inspection on 18 November 2024.	
Heritage				
Unexpected Finds	<ul style="list-style-type: none"><li>All activity in the vicinity of the find should cease immediately. Aboriginal objects are protected by the National Parks and Wildlife Act 1974. It is an offence under the NPW Act 1974 to disturb or destroy an Aboriginal object without an Aboriginal Heritage Impact Permit (AHIP). A qualified archaeologist should be contacted to assess the find and the OEH and the Local Aboriginal Land Council (LALC) notified.</li><li>If human remains, or suspected human remains, are found during excavation, all work in the vicinity should cease immediately, the site should be secured and the NSW Police and the OEH should be notified.</li></ul>	Compliant	The Construction Aboriginal Heritage Management Plan (Revision 1, date 10/08/2022), prepared for the Depot Relocation, includes Appendix C - Aurizon Aboriginal Cultural Heritage New Find Procedure. As stated in CCR 1 (Aurizon, Revision 1, date 1/06/2023) and CCR 2 (Aurizon, Revision 1, date 31/07/2023), no unexpected finds were identified during Modification 2 construction.	



Table B4 - SSI-6090 Modification 2 – Statement of Commitments

The commitments assessed below are limited to the additional mitigation and management measures recommended to be included in the Depot Relocation (Mod 2) approval, in the Environmental Assessment report Section 5.25 Modification to SSI-6090 (formerly MP07\_171) (Ethos Urban, 2022).

<https://mc-71bd5e2a-aade-4067-a0ad-8402-cdn-endpoint.azureedge.net/-/media/project/aurizon/files/sustainability/environment/hexham-turning-angle/depot-assessments/ssi-6090---modification-report.pdf?rev=ad3e72d7cf044daa976f30e58ef9144d&hash=838978A9D61CCE4C01FED315A1DF5B6B>

Item	Commitment	Compliance Status	Evidence	Recommended Action
Acid Sulfate Soils				
Acid Sulfate Soils	The existing ASSMP relevant to the SSI is to be adopted for the construction of the Modification Proposal (Depot Relocation).	Compliant	The CCMP (Revision 1, date 10/08/2022) was prepared for the construction phase of the Depot Relocation (Mod 2) project. The CCMP section 3.0 summarises ASS management procedures and refers to the existing SMP for details.  The CCMP was approved as per DPE Letter dated 21 October 2021, Subject: Hexham MOD 2 - Construction Environmental Management Plan, Sub-Plans and related plans, DPE reference: SSD-6090-46.	
Contamination				
Contamination	Relevant mitigation measures established as part of MOD 1 are to be implemented.	Note	Refer to Table 3 Contamination Management	
Contamination	It is recommended soils are managed in accordance with the Site Management Plan (SMP) (Aurizon 2021).	Compliant	The CCMP (Revision 1, date 10/08/2022) was prepared for the construction phase of the Depot Relocation (Mod 2) project. The CCMP section 2.0 summarises general contamination management and remediation measures and refers to the existing SMP for details.  The CCMP was approved as per DPE Letter dated 21 October 2021, Subject: Hexham MOD 2 - Construction Environmental Management Plan, Sub-Plans and related plans, DPE reference: SSD-6090-46.	
Soil Salinity				
Soil Salinity	Site drainage is to be designed to maintain existing levels of runoff and infiltration where possible.	Compliant	The Hexham TSF Stormwater Management Plan (Revision 12, date 09/08/2024) section 2.2 describes the site hydrology, and states that: <i>'The Site stormwater system has been designed to address the following:</i> <ul style="list-style-type: none"><li><i>Potential changes to the hydrologic response of catchments contributing to sensitive areas during normal wetting and drying cycle events (i.e. events &lt;1 year ARI return period).</i></li><li><i>Management of peak flows from the developed site in larger storm events (up to 10% AEP) to ensure they are as close to pre-developed conditions as possible.'</i></li></ul> The Environmental Assessment for the Depot Relocation (Ethos Urban, 2022) states that <i>'Surface water runoff from the hardstand area (depot and warehouse, carpark and surrounds) will be directed to Basin 2, which is consistent with the current conditions'.</i>	
Soil Salinity	Relevant mitigation measures established as part of MOD 1 are to be implemented.	Note	Refer to Table B3 Soil Salinity	
Soil and Land				
Soil and Land	Relevant mitigation measures established as part of MOD 1 are to be implemented.	Note	Refer to Table B3 Soil and Land Resources	
Soil and Land	Lengths of slopes should be minimised by limiting the extent of excavations and/or using diversion drains to reduce water velocity over disturbed areas.	Compliant	The Construction Stormwater Management Plan (CSMP) (Revision 1, date 12/09/2022) Section 4.0 describes the erosion and sediment control management measures that were to be implemented during the construction phase of the Depot Relocation (Mod 2) project.	





Item	Commitment	Compliance Status	Evidence	Recommended Action
			The CEMP (Revision 1, date 10/08/2022) section 2.1 describes the construction activities and methodology, and refers to the <i>‘installation of the diversion bund to the South to assist with stormwater runoff control.’</i>	
Soil and Land	Progressive rehabilitation or sealing of works areas.	Compliant	The Construction Stormwater Management Plan (CSMP) (Revision 1, date 12/09/2022) section 4.0 describes the erosion and sediment control management measures that were to be implemented during the construction phase of the Depot Relocation (Mod 2) project. It states that <i>‘Civil earthworks will be constructed in a manner to minimise the extent of disturbance at any one time.’</i>	
Water				
Water	Construct stormwater drainage of the proposal as per the design.	Compliant	The Environmental Assessment for the Depot Relocation (Ethos Urban, 2022) states that <i>‘Surface water runoff from the hardstand area (depot and warehouse, carpark and surrounds) will be directed to Basin 2, which is consistent with the current conditions’</i> . A copy of a PowerPoint slide showing catchments, channels and basins was provided, showing the runoff pathway from the depot to Basin 2 (Hexham Initial Spill Response: Channels and Basins, no date).  CCR 1 (Aurizon, Revision 1, date 1/06/2023), and CCR 2 (Aurizon, Revision 1, date 31/07/2023) state that stormwater design is consistent with the original project approval which was developed in consultation with OEH and NCC.	
Water	Continue groundwater and surface water monitoring and reporting as per the OSGMP.	Non-Compliant (NC 8)	Groundwater and surface water monitoring has continued under the Surface and Groundwater Monitoring Plan. Refer to Table 1, Condition C19 for discussion of evidence and non-compliance issues.  The document revision history indicates that the plan was updated to reflect Depot operations in Revision 11, date 01/02/2022. Revision 11 of the plan was provided to DPE via email (from: no-reply@majorprojects.planning.nsw.gov.au, to: Harry Egan, Hexham Train Facility – Hexham Water Monitoring Plan, date 23/03/2023).	Refer to <b>NC Recommendation 1</b> under Table 1, condition C19.
Water	Maintain the existing stormwater management system as per the existing Operational Stormwater Management Sub-Plan.	Non-Compliant (NC 9)	Section 4.2 of the Hexham TSF Stormwater Management Plan (SWMP) (revision 12, 09/08/24) includes a requirement for waterway and drainage inspection per the Stormwater Maintenance Checklist. Section 6.2 Table 11 of the SWMP includes details of items for inspection and frequency.  Section 4.2 Table 16 of the Hexham TSF Environmental Management Plan (OEMP) includes inspection and audit requirements, including monthly inspections for Site and Surrounds, CMF and Provisioning Shed and Drainage and Stormwater.  During the site inspection and interviews, copies of the referenced environmental inspection reports were requested, however the latest record identified was dated 29 October 2021. It was advised by Aurizon that inspections had occurred and actions raised as needed, however they were not formally scheduled or documented.  A copy of a Hexham OEMP Audit Storm Water Quarterly checklist was provided (Aurizon, dated 5/12/2024, after the audit period) which included items relating to drain maintenance, condition of basins, and containment of waste, fuels, oils and other chemicals. Observations made in the audit were generally positive, with two notes regarding a need for maintenance of vegetation around basins and a note regarding a need for cleaning of drain nets. Daracon was noted to be already scheduled to complete these maintenance works at the time of the quarterly audit.  Two monthly maintenance checklist examples were provided, both from 15 November 2024 (report HEXBFF-MS-2024-01, and report HEXCMF-MS-2024-01), which included detailed inspections for components in fuel, oil, coolant, sand and other liquid systems.	<b>NC Recommendation 5:</b> Undertake the environmental inspections required under the Hexham TSF Stormwater Management Plan and Environmental Management Plan and implement a formal system for scheduling, completing, documenting and reviewing the inspections.
Water	Update the Operational Stormwater Management Sub-Plan for consistency once construction of the Modification Proposal is complete.	Compliant	The Hexham TSF Stormwater Management Plan revision history indicates that the plan was updated to reflect Depot operations in Revision 11, date 31/05/2022.	
Visual Impact				



Item	Commitment	Compliance Status	Evidence	Recommended Action
Visual Impact	Retain all existing vegetation along the Hexham LTTSF Site property boundary.	Compliant	<p>No vegetation was removed from the Hexham LTTSF Site property boundary as a result of the Depot Relocation (Mod 2) project.</p> <p>CCR 2 (Aurizon, Revision 1, 31/07/2023) states that 'no felling of trees... occurred during the project'.</p> <p>During the site inspection, it was confirmed that existing vegetation along the property boundary was retained and that operations are generally well screened from surrounding areas.</p>	
Waste				
Waste	Existing Waste Management Plan to be updated for construction and operations.	Compliant	<p>The Construction Waste and Spoil Management Plan (CWSMP) (Revision 1, date 09/09/2022) was prepared for the construction phase of the Depot Relocation (Mod 2) project. The CWSMP was approved as per DPE Letter dated 21 October 2021, Subject: Hexham MOD 2 - Construction Environmental Management Plan, Sub-Plans and related plans, DPE reference: SSD-6090-46.</p> <p>The Hexham TSF Waste Management Plan (WMP) revision history indicates that the plan was updated to reflect Depot operations in Revision 7, date 02/02/2023, approved by DPE (DPE, Ref SSI-6090-PA-60, date 13/06/2023).</p>	



Table B5 - 2021 IEA Recommendations and Opportunities for Improvement

Aurizon Hexham Train Support Facility: MP07\_0171 Mod 1 (SSI-6090) 2021 Independent Environmental Audit (SLR, March 2022).

NC ID #	Condition	Aspect	Recommendation	Findings and Evidence (November 2024)	Status (November 2024)
Non-compliance Recommendations					
NC1	SSI-0609 Condition C19	Surface Water and Groundwater Monitoring Program	<b>NC REC 1:</b> The Surface Water and Groundwater Monitoring Program should be updated to include reference to cumulative impacts and their management as required by Condition C19(h). If cumulative impacts are no longer required to be monitored following the completion of construction the Plan should clarify and justify.	The Surface Water and Groundwater Monitoring Plan (SGMP) (Revision 12, date 09/08/2024) section 1.4 has been updated to state that Condition C19(h) <i>'... relates to assessing cumulative dewatering impacts associated with the simultaneous construction of both the Site and the Relief Roads Project. As construction of both projects has been finalised cumulative impacts and interactions are no longer occurring and as such no longer warrant monitoring or management as part of the OEMP.'</i> <b>NC REC 3 is considered to be closed.</b>	<b>Closed</b>
NC2	SSI-0609 Condition D5	Document Submission – Compliance Reporting	<b>NC REC 2:</b> Establish (or review) system to ensure required submissions to regulatory authorities are completed by the relevant due dates.	Aurizon maintains a 'Compliance Tracking Program' spreadsheet that includes, for example, the condition/compliance requirement, responsibility and completion date. It is noted that the spreadsheet does not include 'due dates' for the conditions where a due date applies. <b>This is considered to be an opportunity for improvement (OFI 9).</b> Aurizon advised that the spreadsheet had been reviewed; however, the 'Compliance Tracking Program' spreadsheet does not include version history or document review details. <b>This is considered to be an opportunity for improvement (OFI 9).</b> <b>NC Rec 2 is considered to be closed.</b>	<b>Closed</b> <b>OFI 9:</b> Update the Compliance Tracking Program spreadsheet to include: (a) Document control information including version history and review details; and (b) Reporting/compliance due dates, where relevant.
NC4	SSI-0609 Condition E33	Document Submission – Validation Report	<b>NC REC 2:</b> Establish (or review) system to ensure required submissions to regulatory authorities are completed by the relevant due dates.	Aurizon maintains a 'Compliance Tracking Program' spreadsheet that includes, for example, the condition/compliance requirement, responsibility and completion date. It is noted that the spreadsheet does not include 'due dates' for the conditions where a due date applies. <b>This is considered to be an opportunity for improvement (OFI 9).</b> Aurizon advised that the spreadsheet had been reviewed; however, the 'Compliance Tracking Program' spreadsheet does not include version history or document review details. <b>This is considered to be an opportunity for improvement (OFI 9).</b> <b>NC Rec 2 is considered to be closed.</b>	<b>Closed</b> <b>OFI 9:</b> Update the Compliance Tracking Program spreadsheet to include: (a) Document control information including version history and review details; and (b) Reporting/compliance due dates, where relevant.
NC 5	SSI-0609 Condition E63(d)	Construction Soil and Water Management Plan and Construction Environmental Management Plan	<b>NC REC 3:</b> Update appropriate contingency plan sections of management plans to include major spill events.	The Construction Stormwater Management Plan (Revision 1, date 12/09/2022), prepared for the Depot Relocation, section 6.3 states <i>'Management of major incidents inclusive of large-scale fuel or chemical spills will be undertaken in accordance with the Site Emergency Response Procedure and Section 7 of the CEMP.'</i> The CEMP section 7.1.1 (Revision 1, date 10/08/2022) prepared for the Depot relocation states <i>'Environmental incidents will be managed and responded in accordance with the Site Emergency Response Management Plan (SERP) included in Annexure 5 and to be displayed in the Site Office and lunch rooms.'</i> The SERP (Revision 1.6, date 10/07/2024) 'Hazardous Material' section details controls to be applied to all spill events. The 'Environmental Incident' section details the response for 'small oil or fuel spill'. <b>NC REC 3 is considered to be closed.</b> However, the SERP does not distinguish between major and minor spill events and does not include guidance on what is considered a 'small oil or fuel spill' and therefore when to apply the 'small oil or fuel spill' procedure. <b>This is considered an opportunity for improvement (OFI 10).</b>	<b>Closed</b> <b>OFI 10:</b> Consider updating the SERP to clarify what is considered a major and a minor spill and therefore when to apply the 'small oil or fuel spill' procedure. . Alternatively, remove references to the size of the spill and clarify the application of the spill response procedures contained in the SERP.



NC ID #	Condition	Aspect	Recommendation	Findings and Evidence (November 2024)	Status (November 2024)
NC6	SSI-0609 Condition E63(e)	Construction Indigenous Heritage Management Plan	<b>NC REC 4:</b> Clarify procedure for determining when works can re-commence, and assessment of the consistency of any new Aboriginal heritage impacts against the approved impacts of the SSI, and registering of any new site(s) in the AHIMS database.	The Construction Aboriginal Heritage Management Plan (Revision 1, date 10/08/2022), prepared for the Depot Relocation, includes Appendix C - Aurizon Aboriginal Cultural Heritage New Find Procedure. The New Find Procedure details the required notification and reporting process. Although the specific recommendations are not explicitly addressed, the procedure specifies that an Archaeologist will be engaged, and mitigation measures developed in consultation with Aboriginal parties. <b>NC REC 4 is considered to be closed.</b>	<b>Closed</b>
NC7	SSI-0609 Condition F2	Document Submission - OEMP	<b>NC REC 2:</b> Establish (or review) system to ensure required submissions to regulatory authorities are completed by the relevant due dates.	Aurizon maintains a 'Compliance Tracking Program' spreadsheet that includes, for example, the condition/compliance requirement, responsibility and completion date. It is noted that the spreadsheet does not include 'due dates' for the conditions where a due date applies. <b>This is considered to be an opportunity for improvement (OFI 9).</b> Aurizon advised that the spreadsheet had been reviewed; however, the 'Compliance Tracking Program' spreadsheet does not include version history or document review details. <b>This is considered to be an opportunity for improvement (OFI 9).</b> <b>NC Rec 2 is considered to be closed.</b>	<b>Closed</b> <b>OFI 9:</b> Update the Compliance Tracking Program spreadsheet to include: (a) Document control information including version history and review details; and (b) Reporting/compliance due dates, where relevant.
NC8	SSI-0609 Condition F4	Noise and Vibration Compliance Assessment	<b>NC REC 5:</b> The noise and vibration compliance assessment should be updated to include consideration of all requirements of condition F4.	The OCR for the 2021 reporting period (Aurizon, 2022) states that the assessment required by Condition F4A of MP07_0171 Mod 1 was completed in May 2021, and the report was issued in January 2022 following response to DPI&E comments. <b>NC REC 5 is considered to be closed.</b>	<b>Closed</b>
Improvement Recommendations					
Improvement REC 1	-	Inductions	It is recommended that inductions be updated to include specific reference to this development consent and environmental relevant legislation.	Aurizon did not support this recommendation. Aurizon's response to this recommendation is documented in Aurizon letter, dated 30 March 2022, RE: Hexham Train Support Facility MP07_0171 Mod 1 (SSI-6090) 2021 Independent Environmental Audit DPI&E Request for Information Aurizon Response. The IEA supports Aurizon's position. <b>Improvement REC 1 is considered to be closed.</b>	<b>Closed</b>
Improvement REC 2	-	Inductions	It is recommended that the visitor induction include environmental management to make visitors aware of their obligations.	Aurizon did not support this recommendation. Aurizon's response to this recommendation is documented in Aurizon letter, dated 30 March 2022, RE: Hexham Train Support Facility MP07_0171 Mod 1 (SSI-6090) 2021 Independent Environmental Audit DPI&E Request for Information Aurizon Response. The IEA supports Aurizon's position. <b>Improvement REC 2 is considered to be closed.</b>	<b>Closed</b>
Improvement REC 3	-	ER approval of management plans	It is recommended that ER approval of management plans include reference to the version approved.	The DPE Letter dated 21 October 2021, Subject: Hexham MOD 2 - Construction Environmental Management Plan, Sub-Plans and related plans, DPE reference: SSD-6090-46, documents the title, version number of date of each management plan that was reviewed and approved by DPE. <b>Improvement REC 3 is considered to be closed.</b>	<b>Closed</b>
Improvement REC 4	-	Hydrocarbon management	Ensure empty drums are stored in appropriately bunded areas.	During the site inspection undertaken on 18 November 2024, no empty drums were observed outside of covered and bunded areas. <b>Improvement REC 4 is considered to be closed.</b>	<b>Closed</b>
Improvement REC 5	-	Waste management	Some areas of legacy waste were identified at the site which are recommended for removal.	The OCR for the 2023 reporting period (Aurizon, 2024) states that the 'head walls and waste tyres removed in 2023'.	<b>Closed</b>



NC ID #	Condition	Aspect	Recommendation	Findings and Evidence (November 2024)	Status (November 2024)
				Based on the site inspection undertaken on 18 November 2024, the site is well maintained with good housekeeping practices in place and minimal waste stored. Minor waste items were observed in the storage area to the south of the Depot, i.e., a gas bottle and fire extinguisher (refer to Appendix E: Site Photographs). <b>Improvement REC 5 is considered to be closed.</b>	
Improvement REC 6	-	Management Plans	Review management plans to ensure: - A reference table referring to consent conditions is included; - Where conditions are not addressed, include justification as to why; - Cross references in management plans are correct; - All Appendixes are attached to management plans published on the website; - Full names of acronyms used in the report are included; - Other management plans are correctly referenced within the document; - A full reference list is included in every Management Plan; and - Document control including version and date is consistent throughout.	The OCR for the 2023 reporting period (Aurizon, 2024) states 'CEMPs approved in September 2022' and 'OEMPs reviewed and approved in 2023'. Minor deviations from the improvement recommendations are noted as follows; however, these are considered minor and are unlikely to have negatively impacted environmental management at the site during the Depot Relocation project: <ul style="list-style-type: none"><li>CTMP (Revision 1), no reference list, document control not consistent throughout.</li><li>CNVMP (Revision 1), conditions are not addressed without justification, incorrect cross-references, and full names of acronyms used in the report are not included.</li><li>CSWMP (Revision 1,), no reference list.</li><li>CFFMP (Revision 1), incorrect table cross-reference.</li><li>CCMP (Revision 1), conditions are not addressed without justification, incorrect cross-references (Table 4.1 is listed as Table 3.1 in Table of Contents).</li></ul> <b>Improvement REC 6 is considered to be closed.</b>	Closed



## Appendix C: Consultation

29 October 2024

Heidi Watters  
Team Leader Compliance  
Department of Planning and Environment  
Suite 14, Level 1, 1 Civic Avenue  
Singleton NSW 2333

Dear Heidi,

## **Re: Request for Consultation Independent Environmental Audit – Aurizon Hexham Train Facility**

Senversa has been engaged by Aurizon to conduct an Independent Environmental Audit of the Hexham Train Support Facility, and the audit team was approved by NSW Planning on 4 September 2024 (NSW Planning ref: SSI-6090-PA-69).

Senversa is due to conduct a site visit at the Hexham Train Support Facility on 18 November 2024. Note that this is approximately 2 weeks later in the year than previous audit site inspections.

As per the Independent Audit Post Approval Requirements (DPIE 2020), please consider any feedback, issues or focus areas you would like to raise with the audit team prior to the audit and send these to the following email address: [suanna.harvey@senversa.com.au](mailto:suanna.harvey@senversa.com.au). Senversa has also contacted Newcastle City Council for consultation. If the Department wishes to request that any additional parties or agencies be consulted, please contact us via the above email.

Given the audit reporting period falls over December and January, Senversa is also requesting an extension to the 2024 IEA report deadline to allow for the closure of Senversa offices from 21 December 2024 to 5 January 2025 and staff annual leave. If possible, Senversa requests that the proposed report due date be extended to 10 February 2025.

If you wish to discuss any of the above, please contact Suanna Harvey, lead auditor, on 0438 577 025.

Yours sincerely,



**Victoria Lampe**  
Assistant Auditor



**Suanna Harvey**  
Lead Auditor



29 October 2024

Robert Manev  
Senior Environment Protection Officer  
City of Newcastle  
12 Stewart Avenue  
Newcastle West NSW 2302

Dear Robert,

## **Re: Request for Consultation Independent Environmental Audit – Aurizon Hexham Train Facility**

Senversa has been engaged by Aurizon to conduct an Independent Environmental Audit of the Hexham Train Support Facility, and the audit team was approved by NSW Planning on 4 September 2024 (NSW Planning ref: SSI-6090-PA-69).

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If you wish to discuss any of the above, please contact Suanna Harvey, lead auditor, on 0438 577 025.

Yours sincerely,



**Victoria Lampe**  
Assistant Auditor



**Suanna Harvey**  
Lead Auditor



## Appendix D: Independent Audit Declaration Forms

27 August 2024

Harry Egan  
Principal Adviser Environment  
Aurizon  
Building F, Hexham Train Facility  
Off Anderson Drive  
HEXHAM NSW 2322

Dear Harry,

## Re: Auditor Declaration of Independence

Please find following a declaration of independence with respect to my proposed engagement to conduct the Independent Environmental Audit (IEA) of the Aurizon Hexham Train Support Facility.

The audit team consists of:

- Suanna Harvey – Lead Auditor.
- Emma Guy – Assistant Auditor.
- Victoria Lampe – Assistant Auditor.

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### Declaration of Independence - Auditor

<b>Project Name</b>	Hexham Train Support Facility (TSF) Hexham Depot and Wagon Stowage Area
<b>Consent Number</b>	MP07_0171 (SSI 6090), MOD 1 and MOD 2
<b>Description of Project</b>	The Site was approved by a delegate for the Minister for Planning and Infrastructure under MP07_0171 on the 10 October 2013. The site was considered operational in October 2015. The Hexham TSF Turning Angle (the Turning Angle) Modification MP07_0171 MOD 1 (SSI-6090) was approved on the 09 October 2019. The Hexham Depot Modification 07_0171 MOD 2 (the Approval) was approved in September 2022.
<b>Project Address</b>	Aurizon Hexham TSF, Off Tarro Interchange at Anderson Drive, parallel to Industrial Drive, Hexham, NSW 2322
<b>Proponent</b>	Aurizon Operations Pty Ltd
<b>Date</b>	27 August 2024

**I declare that:**

- I am not related to any proponent, owner, operator or other entity involved in the delivery of the project. Such a relationship includes that of employer/employee, a business partnership, sharing a common employer, a contractual arrangement outside an Independent Audit, or that of a spouse, partner, sibling, parent, or child;
- I do not have any pecuniary interest in the project, proponent or related entities. Such an interest includes where there is a reasonable likelihood or expectation of financial gain (other than being reimbursed for performing the Audit) or loss to the auditor, or their spouse, partner, sibling, parent, or child;
- I have not provided services to the current project with the result that the audit work performed by themselves or their company, except as otherwise declared to the Department prior to the audit;
- No one from the Audit Team is an Environmental Representative for the Project; and
- No one from the proposed Audit Team can or has accepted any inducement, commission, gift or any other benefit from auditee organisations, their employees or any interested party, or knowingly allow colleagues to do so.

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<b>Name of Proposed Assistant Auditor</b>	Emma Guy
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<b>Signature</b>	
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<b>Qualification</b>	BSc Environmental Science 2016 Bachelor of Arts 2010 Exemplar Global EM – Auditing Environmental Management Systems
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<b>Company</b>	Senversa Pty Ltd
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Please also find attached copy of my full CV, to support seeking approval from the Department of Planning for my proposed role as an assistant auditor for the IEA.

Yours sincerely,



**Emma Guy**

Associate Environmental Scientist

**Enclosures** Attachment A: CV

27 August 2024

Harry Egan  
Principal Adviser Environment  
Aurizon  
Building F, Hexham Train Facility  
Off Anderson Drive  
HEXHAM NSW 2322

Dear Harry,

## Re: Auditor Declaration of Independence

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The audit team consists of:

- Suanna Harvey – Lead Auditor.
- Emma Guy – Assistant Auditor.
- Victoria Lampe – Assistant Auditor.

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### Declaration of Independence - Auditor

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- I have not provided services to the current project with the result that the audit work performed by themselves or their company, except as otherwise declared to the Department prior to the audit;
- No one from the Audit Team is an Environmental Representative for the Project; and
- No one from the proposed Audit Team can or has accepted any inducement, commission, gift or any other benefit from auditee organisations, their employees or any interested party, or knowingly allow colleagues to do so.

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<b>Name of Proposed Assistant Auditor</b>	Victoria Lampe
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<b>Signature</b>	
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<b>Qualification</b>	Master of Environment, 2022 Dual Bachelor of Business Management and Environmental Economics, 2020 Exemplar Global Integrated Management Systems Lead Auditor
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<b>Company</b>	Senversa Pty Ltd
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Please also find attached copy of my full CV, to support seeking approval from the Department of Planning for my proposed role as an assistant auditor for the IEA.

Yours sincerely,



**Victoria Lampe**  
Environmental Scientist

**Enclosures** Attachment A: CV



23 August 2024

Harry Egan  
Principal Adviser Environment  
Aurizon  
Building F, Hexham Train Facility  
Off Anderson Drive  
HEXHAM NSW 2322

Dear Harry,

## Re: Auditor Declaration of Independence

Please find following a declaration of independence with respect to my proposed engagement to conduct the Independent Environmental Audit (IEA) of the Aurizon Hexham Train Support Facility.

The audit team consists of:

- Suanna Harvey – Lead Auditor
- Emma Guy – Assistant Auditor
- Victoria Lampe – Assistant Auditor

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### Declaration of Independence - Auditor

<b>Project Name</b>	Hexham Train Support Facility (TSF) Hexham Depot and Wagon Stowage Area
<b>Consent Number</b>	MP07_0171 (SSI 6090), MOD 1 and MOD 2
<b>Description of Project</b>	The Site was approved by a delegate for the Minister for Planning and Infrastructure under MP07_0171 on the 10 October 2013. The site was considered operational in October 2015. The Hexham TSF Turning Angle (the Turning Angle) Modification MP07_0171 MOD 1 (SSI-6090) was approved on the 09 October 2019. The Hexham Depot Modification 07_0171 MOD 2 (the Approval) was approved in September 2022.
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<b>Proponent</b>	Aurizon Operations Pty Ltd
<b>Date</b>	23 August 2024

**I declare that:**

- No one from the Audit Team is related to any proponent, owner, operator or other entity involved in the delivery of the project. Such a relationship includes that of employer/employee, a business partnership, sharing a common employer, a contractual arrangement outside an Independent Audit, or that of a spouse, partner, sibling, parent, or child;
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- No one from the proposed Audit Team can or has accepted any inducement, commission, gift or any other benefit from auditee organisations, their employees or any interested party, or knowingly allow colleagues to do so.

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<b>Name of Proposed Lead Auditor</b>	Suanna Harvey
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<b>Signature</b>	
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<b>Qualification</b>	BSc (Hons) Chemistry, EPA (Victoria) Appointed Auditor – Industrial Facilities
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<b>Company</b>	Senversa Pty Ltd
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Please also find attached copy of my full CV, to support seeking approval from the Department of Planning for my proposed role as the lead auditor for the IEA.

Yours sincerely,



**Suanna Harvey**

Senior Principal Environmental Scientist

**Enclosures** Attachment A – Lead Auditor CV



## Appendix E: Site Inspection Photographs



**Photo 1. Basin 2, looking east from the access road.**





**Photo 2. Basin 3, looking north.**



**Photo 3. Basin 3 discharge point, looking south from access road.**





**Photo 4. Buffer storage pond.**



**Photo 5. Laydown yard and wagon storage.**





**Photo 6. Laydown yard. Turning angle neutralisation pad (PASS) visible in the background.**



**Photo 7. Laydown yard – waste (old gas bottle and extinguisher).**





**Photo 8. Existing storage warehouse, located south of depot.**



**Photo 9. New (mod 2) storage warehouse, located adjacent to depot.**



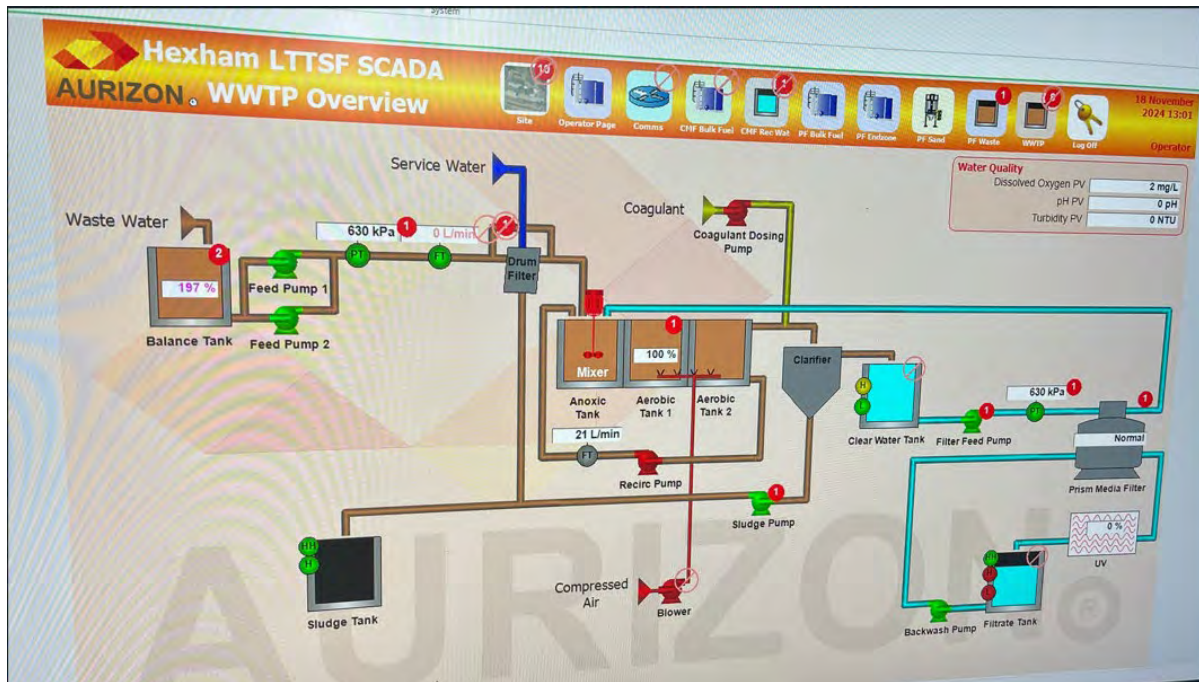


Photo 10. On-site sewage treatment plant SCADA View (plant out of service)

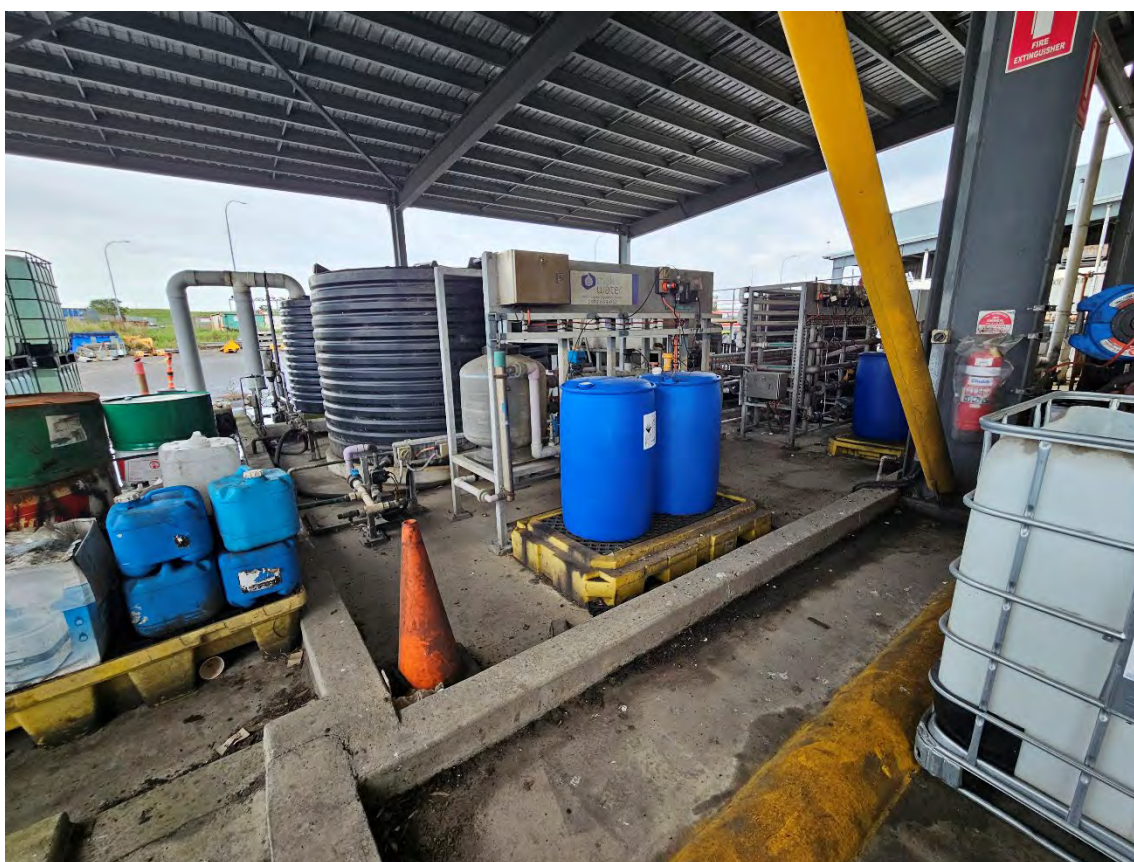


Photo 11. On-site sewage treatment plant - tanks





**Photo 12. Unfinished car wash, located adjacent to sewage treatment plant.**



**Photo 13. DAF Plant.**





**Photo 14. Chemical storage bund. DAF Plant and CMF in background.**



**Photo 15. Chemical storage outside bunded covered area. DAF Plant visible to the right.**





**Photo 16. CMF, looking north from locomotive wash-down area.**



**Photo 17. CMF service pit.**





Photo 18. CMF, engine oil and waste oil ASTs

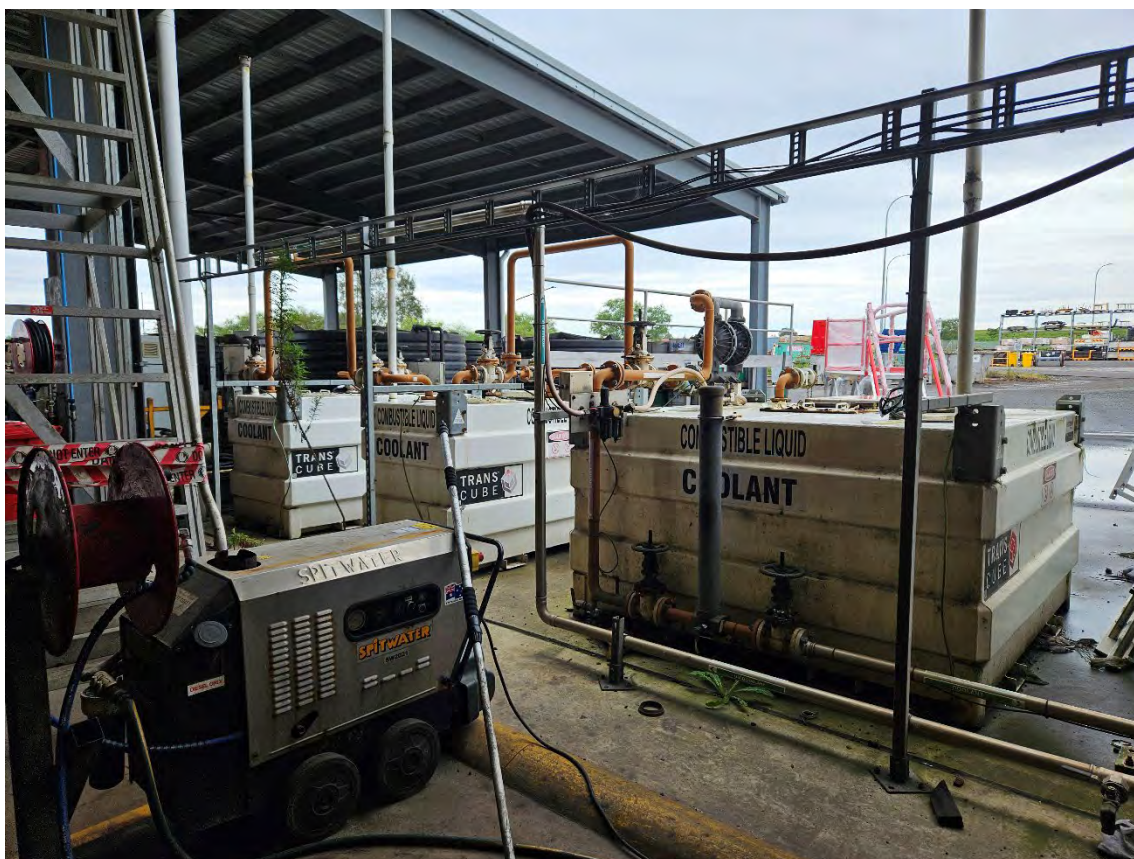


Photo 19. CMF, coolant ASTs.





**Photo 20. Provisioning facility, ASTs. Braided sections of pipe visible.**



**Photo 21. Provisioning facility, fuel unloading area.**





**Photo 22. Yard Provisioning facility – diesel bowser**



## Appendix F: Independent Audit Report Declaration Form

## Appendix F - Independent Audit Report Declaration Form

### Independent Audit Report Declaration Form

**Project Name:** Hexham Train Support Facility (TSF) Hexham Depot and Wagon Stowage Area

**Consent Number:** MP07\_0171 (SSI 6090), MOD 1 and MOD 2

**Description of Project:** The Site was approved by a delegate for the Minister for Planning and Infrastructure under MP07\_0171 on the 10 October 2013. The site was considered operational in October 2015. The Hexham TSF Turning Angle (the Turning Angle) Modification MP07\_0171 MOD 1 (SSI-6090) was approved on the 09 October 2019. The Hexham Depot Modification 07\_0171 MOD 2 (the Approval) was approved in September 2022.

**Project Address:** Aurizon Hexham TSF, Off Tarro Interchange at Anderson Drive, parallel to Industrial Drive, Hexham, NSW 2322

**Proponent** Aurizon Operations Pty Ltd

**Title of Audit:** Aurizon Hexham Train Support Facility - Independent Environmental Audit Report, Reference S21797\_003\_RPT\_Rev1

**Date** 5 February 2025

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

- i. the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Compliance Requirements (Department 2019)*;
- ii. the findings of the audit are reported truthfully, accurately and completely;
- iii. I have exercised due diligence and professional judgement in conducting the audit;
- iv. I have acted 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 were 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: 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

- a) 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:** Suanna Harvey

**Signature** *Suanna Harvey*

**Qualification:** EPA (Victoria) Appointed Auditor – Industrial Facilities

**Company:** Senversa Pty Ltd

**Company Address:** Level 6, 15 William Street, Melbourne VIC 3000



# Senversa Pty Ltd

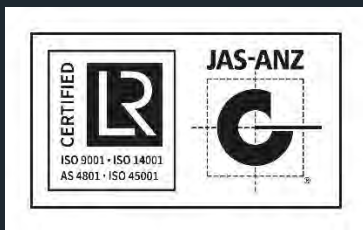
ABN 89 132 231 380

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LinkedIn: Senversa

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Certified



Corporation

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