

# Appendix C – Revised Mitigation Measures Table

| SEARs                                       | Potential impact                                                 | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Traffic, Transport and Accessibility</b> | Impacts on road network from construction and operational phase. | <u>Construction phase</u> <ul style="list-style-type: none"> <li>Preparation and implementation of a detailed CTMP prior to commencement of works, incorporating approved Traffic Control Plans for all site accesses.</li> <li>Manage all vehicle movements in accordance with approved Traffic Control Plans at site accesses.</li> <li>Schedule heavy vehicle deliveries outside the AM and PM peak periods where practicable.</li> <li>Provide all construction worker parking within the site.</li> <li>Clearly delineate and separate pedestrian routes from construction plant and delivery vehicle movements.</li> <li>Undertake all deliveries, waste collection and laydown activities within the site boundary, with no queuing or obstruction on public roads.</li> <li>Maintain and periodically review the CTMP throughout all construction phases</li> </ul> |
|                                             |                                                                  | <u>Operational phase</u> <ul style="list-style-type: none"> <li>Implement the Green Travel Plan to encourage sustainable transport choices and reduce reliance on private vehicles.</li> <li>Provide secure bicycle parking and high-quality end-of-trip facilities.</li> <li>Distribute public transport information to staff and visitors.</li> <li>Promote ridesharing and car-pooling initiatives.</li> <li>Monitor parking and access arrangements to ensure they continue to meet demand without affecting the surrounding road network.</li> </ul>                                                                                                                                                                                                                                                                                                                   |
|                                             |                                                                  | <u>External HV works</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| SEARs                                       | Potential impact              | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                                             |                               | <ul style="list-style-type: none"> <li>Preparation and implementation of stage-specific Traffic Control Plans by suitably qualified personnel for all works within the road reserve.</li> <li>Staging of works and progressive lane closures to maintain traffic flow and minimise disruption.</li> <li>Use of accredited traffic controllers and appropriate signage to manage vehicle, pedestrian and cyclist movements.</li> <li>Scheduling of construction vehicle movements, including deliveries, to avoid peak traffic periods where practicable.</li> <li>Provision of on-site worker parking and laydown areas to avoid on-street parking and minimise localised congestion.</li> <li>Coordination of deliveries and construction activities to avoid queuing and ensure vehicles can be accommodated within work zones.</li> <li>Implementation of a driver code of conduct, including requirements relating to speed, fatigue management, noise minimisation and load covering.</li> <li>Maintenance of access to all properties and emergency services at all times during construction.</li> </ul> |
| <b>Ecologically Sustainable Development</b> | Achieving a high level of ESD | <u>Energy and Carbon</u> <ul style="list-style-type: none"> <li>Reduce operational energy demand by targeting a PUE of 1.3, thereby mitigating greenhouse gas emissions relative to the national average of 1.6.</li> <li>Mitigate energy inefficiency by designing systems to achieve a NABERS Energy for Data Centres rating of 5 stars.</li> <li>Mitigate office building energy and water consumption impacts by committing to a 5.5 Star NABERS Energy Base Building rating and 3 Star NABERS Water rating under an Agreement to Rate.</li> <li>Offset grid reliance through installation of on-site photovoltaic systems with a minimum output of 115kWe per data hall (~230kWe total).</li> <li>Reduce lighting demand by installing LED luminaires with occupant-responsive controls.</li> <li>Mitigate refrigerant-related emissions by specifying very low GWP refrigerants.</li> </ul>                                                                                                                                                                                                               |

| SEARs              | Potential impact                                                                           | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                    |                                                                                            | <ul style="list-style-type: none"> <li>Contribute to Net Zero 2050 targets by committing to procure 100% renewable electricity for all non-IT operational energy use.</li> </ul> <p><u>Water</u></p> <ul style="list-style-type: none"> <li>Air-cooled chillers used for heat rejection that do not consume water in operation leading to effectively zero water use in regular operation for the data centres.</li> <li>Low or zero irrigation demand through selection of drought tolerant planting for landscaping such as endemic native vegetation.</li> <li>Rainwater capture and reuse system for supply to flush fixtures and irrigation.</li> </ul> <p><u>Waste and Materials</u></p> <ul style="list-style-type: none"> <li>Reduce construction and demolition waste impacts through implementation of a waste management plan with landfill diversion targets.</li> <li>Minimise embodied emissions by using concrete mixes with supplementary cementitious materials and structural steel/reinforcement with high recycled content.</li> <li>Mitigate long-term material demand by selecting durable, low-maintenance finishes to extend service life.</li> </ul> <p><u>Urban Heat and Ecology</u></p> <ul style="list-style-type: none"> <li>Mitigate heat island impacts by applying low-absorptivity, high-SRI finishes to roofs and façades.</li> <li>Reduce localised heat build-up and improve amenity by landscaping more than 20.5% of the site, predominantly with deep soil planting to provide shading, evapotranspiration cooling, and biodiversity benefits.</li> </ul> |
| <b>Air Quality</b> | Impacts of construction activities in relation to dust and impacts from ongoing operations | <p><u>Construction Phase</u></p> <ul style="list-style-type: none"> <li>Implement a Construction Environmental Management Plan (<b>CEMP</b>) with a specific Air Quality Management Sub-Plan.</li> <li>Apply standard best-practice dust suppression techniques, including water sprays on exposed surfaces and during earthworks.</li> <li>Cover stockpiles when not in use and minimise material drop heights during handling.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| SEARs                      | Potential impact                                                         | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                            |                                                                          | <ul style="list-style-type: none"> <li>▪ Use wheel-wash facilities at site exits to reduce track-out of material onto public roads.</li> <li>▪ Undertake regular street sweeping along haulage routes to remove deposited material.</li> <li>▪ Limit vehicle speeds on unsealed surfaces and maintain these surfaces to reduce dust generation.</li> <li>▪ Ensure plant and equipment are well maintained to minimise exhaust emissions.</li> </ul> <p><u>Operational Phase</u></p> <ul style="list-style-type: none"> <li>▪ Adhere to the proposed generator maintenance and testing schedule to minimise cumulative operational hours and emissions.</li> <li>▪ Optimise generator load management during testing to reduce emissions intensity.</li> <li>▪ Maintain all generators in accordance with manufacturer specifications to ensure efficient combustion and minimise pollutant output.</li> <li>▪ Implement an operational air quality management plan if nearby sensitive land uses are realised in future, with the flexibility to introduce additional controls if required.</li> </ul> |
| <b>Noise and Vibration</b> | Impacts on surrounding receivers from construction and operational phase | <p><u>Construction Phase</u></p> <ul style="list-style-type: none"> <li>▪ Implement a CNVMP in accordance with the ICNG.</li> <li>▪ Schedule high-noise activities (such as piling) within standard construction hours wherever possible and avoid extended periods of continuous high-noise works.</li> <li>▪ Use quieter equipment and methods where practicable, and ensure all equipment is fitted with appropriate noise suppression devices.</li> <li>▪ Provide advance notification to nearby sensitive receivers prior to particularly noisy works.</li> <li>▪ Establish a complaints management system and designate a community liaison officer to respond promptly to concerns.</li> <li>▪ Manage construction traffic to minimise impacts, including restricting access to designated haulage routes and avoiding night-time heavy vehicle movements.</li> </ul> <p><u>Operational Phase</u></p>                                                                                                                                                                                           |

| SEARs | Potential impact | Mitigation measure |
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- All chiller fans are to be fitted with acoustic attenuation in the form of 1D long unpodded attenuator with the following insertion loss (in each octave band:

|                                   |    |     |     |     |      |      |      |      |
|-----------------------------------|----|-----|-----|-----|------|------|------|------|
| Octave Band Centre Frequency (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| IL (dB)                           | 3  | 4   | 9   | 14  | 13   | 8    | 7    | 6    |

- The maximum height of the chillers discharges, inclusive of the acoustic treatment noted above, is to be RL 81.74
- The height of both the eastern and western buildings between gridlines A and B, comprising the offices, is to be minimum RL 82.34.
- All generators are to be provided with an acoustic enclosure such that the cumulative noise (enclosure intake, enclosure discharge and exhaust) complies with the levels presented in Table 17 of the NVIA.
- An 8 metre acoustic barrier is to be provided around the full perimeter of the 330/66 kV transformers. The barrier is to be of solid construction and free of air gaps. Due to requirements for blast walls, the barrier is intended to be of minimum 300 mm precast concrete construction.
- 6 metre acoustic barriers are to be provided to the east, north and west sides of each 66/11 kV transformer cluster. The barriers are to be of solid construction and free of air gaps. Due to requirements for blast walls, the barrier is intended to be of minimum 300 mm precast concrete construction.
- Acoustic design to be undertaken during CC for all mechanical plant to be installed and appropriate acoustic treatments incorporated, where required, to meet the noise emission objectives presented in Table 9 of the NVIA.
- To minimise the acoustic impact on surrounding receivers, it is recommended that servicing and testing of the emergency generators be conducted during the daytime period of 7:00 am to 6:00pm.
- The substation switchrooms are to be located within acoustic enclosures. The enclosure is to be acoustically designed such that noise emission from the substation, and any associated

| SEARs                   | Potential impact                                              | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                         |                                                               | <p>mechanical ventilation plant, when considered cumulatively with other development plant, such as the chillers, does not result in an exceedance of the established project noise objectives.</p> <p><u>External HV Works:</u></p> <ul style="list-style-type: none"> <li>▪ Preparation and implementation of a Construction Noise and Vibration Management Plan prior to commencement of works.</li> <li>▪ Implementation of feasible and reasonable noise control measures, including selection of appropriate plant and equipment, use of quieter work methods where practicable and optimisation of construction staging.</li> <li>▪ Application of project-specific noise management levels to guide construction activities and minimise impacts at nearby receivers.</li> <li>▪ Community notification and consultation where works are predicted to exceed noise management levels.</li> <li>▪ Management of out of hours works in accordance with relevant guideline requirements and justification processes.</li> <li>▪ Application of minimum safe working distances and vibration management measures to protect nearby structures.</li> </ul> |
| <b>Water Management</b> | Potential impacts of stormwater on site and surrounding sites | <ul style="list-style-type: none"> <li>▪ Limit total site impervious area to ≤85% (target ≤80%) to comply with subdivision stormwater management parameters and avoid the need for additional detention or treatment infrastructure.</li> <li>▪ Remove the existing GPT and replace it with 2 x GPTS (OceanProtect OceanSave-3300-870 and Ocean save 1500-60) to treat outflows at the downstream stormwater discharge location, installed in accordance with manufacturer specifications and positioned for safe maintenance access.</li> <li>▪ Construct the internal pit-and-pipe drainage network to accommodate the 5-year ARI (minor) event with climate change allowance and provide overland flow paths to safely convey the 100-year ARI (major) event without causing property damage or safety risks.</li> </ul>                                                                                                                                                                                                                                                                                                                                   |

| SEARs                    | Potential impact                                                    | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                          |                                                                     | <ul style="list-style-type: none"> <li>▪ Install and commission two 250kL rainwater tanks to harvest roof runoff from 50% of the data centre roof for toilet flushing and irrigation, with backflow prevention, inlet/overflow screening, and connections to building plumbing to meet at least 72% of projected annual non-potable demand.</li> <li>▪ Prepare and implement a Construction Erosion and Sediment Control Plan in accordance with the Blue Book, including sediment fences, stabilised site access points, inlet protection, and progressive stabilisation of disturbed areas.</li> <li>▪ Prevent construction runoff or pollutants from entering the adjacent Ropes Creek biodiversity corridor by maintaining containment measures and undertaking daily inspections during all ground-disturbing works.</li> <li>▪ Establish a maintenance program for all stormwater quality devices, drainage infrastructure, and rainwater tanks, with inspections in accordance with manufacturer guidelines and after significant rainfall events.</li> <li>▪ Connect wastewater to the Sydney Water sewer network under an approved trade waste agreement, ensuring no untreated discharge enters the stormwater system.</li> </ul> |
| <b>Hazards and Risks</b> | Potential impacts regarding storage and handling of dangerous goods | <ul style="list-style-type: none"> <li>▪ Maintain separation distances between hazardous material storage and property boundaries in accordance with Australian Standards.</li> <li>▪ Provide bunding and spill containment systems for all diesel storage tanks.</li> <li>▪ Install ventilation systems and fire detection/suppression systems in battery and generator areas.</li> <li>▪ Implement spill prevention and emergency response procedures, including staff training and equipment maintenance.</li> <li>▪ Conduct regular inspections and maintenance of hazardous goods storage areas.</li> <li>▪ Restrict generator testing and operation to minimal durations, consistent with operational requirements.</li> <li>▪ Limit dangerous goods deliveries to off-peak times where practicable to reduce on-site traffic and handling risks.</li> <li>▪ Maintain compliance with all applicable standards (AS/NZS 4681, AS IEC 62619, AS 1940) and FM Global recommendations.</li> </ul>                                                                                                                                                                                                                                         |

| SEARs                               | Potential impact                                                            | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Aboriginal Cultural Heritage</b> | Impacts on cultural heritage                                                | <ul style="list-style-type: none"> <li>As the proposed works are unlikely to cause harm to Aboriginal objects, it is recommended that no further investigation is required for the present development and that the proposed development can proceed in line with the Archaeological Unexpected Finds Procedure and Human Remains Procedure outlined in the ACHAR.</li> <li>In the event of an unexpected archaeological find or human remains, works will cease immediately in the vicinity, the area will be secured, and relevant authorities and specialists will be notified. Works will only recommence once the find has been assessed and appropriately managed in consultation with Heritage NSW and, where applicable, NSW Police.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Social impacts</b>               | Potential positive and negative social impacts associated with the proposal | <ul style="list-style-type: none"> <li>Develop and implement a Community Engagement Strategy targeting the immediate social locality, highlighting potential impacts and benefits.</li> <li>Maintain ongoing engagement with Penrith City Council, stakeholders, and surrounding landowners (particularly those with concurrent developments) to coordinate construction timelines and minimise cumulative impacts.</li> <li>Provide clear two-way communication channels, supported by a grievance mechanism and a dedicated Community Liaison Officer during construction.</li> <li>Deliver regular updates on design, construction milestones, and local employment and training opportunities.</li> <li>Consider preparing an Employment Strategy that prioritises local hiring and procurement.</li> <li>Collaborate with key industry and educational stakeholders to establish partnerships for skills development and future employment pathways.</li> <li>Implement the measures outlined in the Preliminary CTMP to mitigate traffic and parking impacts during construction.</li> <li>Apply the Preliminary Green Travel Plan to encourage operational workers to use alternative modes of transport, leveraging the existing bus corridor along Lenore Drive.</li> <li>Incorporate worker wellbeing initiatives into the design, including breakout spaces, communal kitchen facilities, and shaded outdoor areas to support health and amenity.</li> </ul> |

| SEARs                              | Potential impact                                        | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|                                    |                                                         | <ul style="list-style-type: none"> <li>Apply landscaping, shading and high-SRI external finishes to mitigate the site's contribution to the urban heat island effect.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Ground and Water Conditions</b> | To manage geotechnical, salinity and groundwater risks: | <p><u>Data Centre Site:</u></p> <ul style="list-style-type: none"> <li>Undertake groundwater monitoring from at least three on-site wells for a minimum of three months prior to bulk earthworks, and continue during construction, to confirm separation from the water table and identify fluctuations. Maintain a minimum 1 m clearance between the finished excavation levels and the maximum recorded groundwater table. Check groundwater levels daily during bulk excavation to ensure proposed cuts will not intersect the water table.</li> <li>Implement the Salinity Management Plan in full, including all site-specific strategies for sodic soil management, fill placement, drainage, landscaping, and structural design requirements.</li> <li>Cap exposed or placed sodic soils with a more permeable material to prevent ponding, reduce capillary rise, provide drainage, and minimise erosion. Match excavated material to in-situ soils of similar or higher salinity/aggressivity where possible. Restrict imported fill to non-aggressive and non- to slightly saline soils confirmed by testing. Avoid water collecting in low-lying areas, depressions, or behind fill.</li> <li>Incorporate effective drainage to direct runoff away from structures, prevent infiltration into permeable zones, and minimise salt mobilisation. Provide drains at the top of batter slopes to reduce concentrated flows and risk of scour. Ensure retaining walls are designed with adequate drainage to prevent salt accumulation in backfill.</li> <li>Implement erosion and sediment controls during construction and promptly stabilise exposed soils to prevent dispersion and sediment loss. Use salt-tolerant grasses and trees in landscaping to stabilise soils, reduce erosion, and maintain evapotranspiration and groundwater levels.</li> <li>Design concrete mixes, masonry and buried steelwork for salinity exposure in accordance with AS 3600, AS 2159, AS 4058 and Penrith DCP, including: <ul style="list-style-type: none"> <li>For mildly aggressive soils to concrete: minimum 32 MPa strength piles, 60 mm cover to reinforcement (AS 2159).</li> <li>For moderately saline soils mildly aggressive to concrete minimum 25 MPa strength slabs and foundations, 45 mm cover to reinforcement, and minimum three-day curing period (AS 3600).</li> </ul> </li> </ul> |

| SEARs                                | Potential impact                                                                                       | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                                      |                                                                                                        | <ul style="list-style-type: none"> <li>– Use AS 4058-compliant reinforced concrete pipes (general purpose Portland cement) with minimum 10 mm cover to reinforcement, or fibre-reinforced pipes, to achieve a design life &gt;100 years.</li> <li>– For mildly aggressive soils to steel (&lt;1000 Ohm-cm), allow for a corrosion rate of 0.01–0.02 mm/year or equivalent protection if coating life is shorter than structure life.</li> <li>▪ Identify and manage any unsuitable fill encountered during excavation, including oversized or organic material, to maintain foundation performance and limit potential for settlement or instability. Compact all engineered fill in accordance with AS 3798 Level 1 requirements.</li> <li>▪ Manage soil stockpiles to prevent the spread of saline material and revegetate disturbed areas promptly. Limit irrigation volumes to reduce salt accumulation and use salt-tolerant landscaping species.</li> </ul> <p><u>External HV Works:</u></p> <ul style="list-style-type: none"> <li>▪ Design of the HDD alignment to maintain adequate separation beneath Ropes Creek and avoid highly permeable zones where practicable.</li> <li>▪ Continuous circulation of bentonite-based drilling fluid to stabilise the borehole and limit groundwater ingress.</li> <li>▪ Monitoring of drilling fluid pressures and returns in real time to detect potential losses or inadvertent returns.</li> <li>▪ Collection, storage and disposal of drilling fluids, groundwater and cuttings to a licensed off-site facility.</li> </ul> |
| <b>Contamination and Remediation</b> | Disturbance of contaminated soil and impacts on land, air, water, and users and occupants of the site. | <p><u>Data Centre Site:</u></p> <ul style="list-style-type: none"> <li>▪ Prior to civil works along the northern boundary, inspect for and remove any dumped material. If contamination indicators (e.g. asbestos, odours, staining) are present, engage a suitably qualified environmental consultant to manage removal and disposal.</li> <li>▪ Implement both an unexpected finds protocol and an asbestos finds protocol during all earthworks. Cease works in affected areas until assessment and clearance is provided.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| SEARs                   | Potential impact                                                        | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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|                         |                                                                         | <ul style="list-style-type: none"> <li>Undertake additional assessment (inspection, sampling, analysis) to confirm final waste classifications for any surplus materials. Consider assessment of fill material under the NSW EPA Excavated Natural Material Order 2014 prior to, or in conjunction with, assessment under the Waste Classification Guidelines (2022).</li> <li>Implement erosion and sediment controls to prevent off-site migration of sediments or contaminants during construction.</li> </ul> <p><u>External HV Works:</u></p> <ul style="list-style-type: none"> <li>Segregation, classification, and appropriate disposal of excavated materials in accordance with NSW EPA requirements;</li> <li>Validation and verification of imported materials to ensure suitability for reuse.</li> <li>Pre-construction inspection and removal of fly-tipped materials, where present.</li> <li>Implementation of an Unexpected Finds Protocol, including procedures for managing potential contamination and asbestos.</li> <li>Engagement of a suitably qualified environmental consultant where contamination is suspected.</li> </ul> |
| <b>Waste Management</b> | Waste associated with the construction and operation of the data centre | <ul style="list-style-type: none"> <li>Apply the waste hierarchy (avoid, reduce, reuse, recycle, dispose) across all stages of the project.</li> <li>Establish designated, clearly signed waste storage areas with separation of materials to maximise recovery.</li> <li>Implement systems for on-site reuse where feasible (e.g. reusing fill for backfilling or landscaping).</li> <li>Arrange regular collection by licensed waste contractors and ensure all waste is transported to appropriately licensed facilities.</li> <li>Maintain accurate records of waste quantities, destinations, and recovery rates.</li> <li>Provide training and site inductions for all staff and contractors on waste minimisation and correct segregation practices.</li> <li>Implement hazardous waste protocols, including early identification, secure containment, and compliant disposal.</li> </ul>                                                                                                                                                                                                                                                        |

| SEARs                                            | Potential impact                     | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                                                  |                                      | <ul style="list-style-type: none"> <li>Incorporate operational waste minimisation strategies, including recycling stations, reduced packaging procurement, and regular waste audits to improve recovery rates.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Infrastructure Requirements and Utilities</b> | High usage of water and electricity  | <ul style="list-style-type: none"> <li>Continue liaison with utility providers (TransGrid, Sydney Water, telecommunications carriers) to confirm connection capacity, finalise designs, and coordinate works to minimise service disruptions.</li> <li>Incorporate high-efficiency cooling plant, water-saving fixtures, and renewable energy generation to reduce ongoing demand on public utilities.</li> <li>Implement traffic and access controls during utility installation works and schedule service tie-ins to avoid peak usage periods for surrounding businesses.</li> </ul>                                                                                                                                                                                                                                                                                                                                                              |
| <b>Bushfire</b>                                  | Potential bushfire risk              | <ul style="list-style-type: none"> <li>At the commencement of building works and in perpetuity, the entire site shall be maintained as an Asset Protection Zone. The APZ shall be established and maintained as an inner protection area as outlined within <i>Planning for Bushfire Protection 2019</i> and the NSW RFS document '<i>Standards for Asset Protection Zones</i>'.</li> <li>Proposed new buildings are to be constructed to comply with the National Construction Code (2019), Australian Standard AS 3959:2018, <i>Construction of buildings in bush fire-prone areas</i> and/or NASH Standard (1.7.14 updated), <i>National Standard Steel Framed Construction in Bushfire Areas – 2014</i>, and Section 7.5 of <i>Planning for Bush Fire Protection 2019</i> on a prescriptive (deemed to satisfy and/or acceptable solution) basis and/or performance basis to the extent identified in the Bushfire Hazard Assessment.</li> </ul> |
| <b>BCA and Accessibility</b>                     | Compliance with relevant regulations | <ul style="list-style-type: none"> <li>It is anticipated that a suitable condition of consent can be imposed on the proposed data centre to ensure the recommendations of the BCA Report and Access Capability Report are addressed prior to the issue of the relevant Construction Certificate.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Greenhouse Gas Emissions</b>                  | Impacts to greenhouse gas emissions  | <ul style="list-style-type: none"> <li>Commitment to 100% renewable electricity for both IT (tenant) and non-IT (proponent) loads from commencement.</li> <li>High-efficiency design (target PUE ~1.3) to minimise energy demand.</li> <li>Use of low global warming potential refrigerants in cooling systems.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| SEARs        | Potential impact | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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|              |                  | <ul style="list-style-type: none"> <li>Investigation of biofuels for backup generators to reduce Scope 1 emissions.</li> <li>Implementation of a net zero (Scope 1 and 2) target by 2050.</li> <li>Offsetting of residual emissions using ACCUs.</li> <li>Ongoing monitoring, reporting, and optimisation of energy and emissions performance.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Trees</b> | Tree Protection  | <ul style="list-style-type: none"> <li>A Project Arborist experienced in tree protection on construction sites should be engaged prior to the commencement of any works on site. The Project Arborist shall monitor and report regularly to the Principal Certifying Authority (PCA) and the Applicant on the condition and protection of the retained trees during the works. The Project Arborist is to supervise and monitor any excavation, machine trenching or compacted fill placement within the TPZ of retained trees throughout construction.</li> <li>Following design development and prior to any construction works taking place on site, a dedicated Tree Protection Plan and Specification is to be prepared by a suitably qualified AQF Level 5 Arborist. The purpose of this document is to provide a suitable framework for tree protection to ensure all trees nominated for retention are not adversely impacted by the proposed works.</li> </ul> |