GYDE

Mitigation Measures

Newcastle Education Campus

25A National Park Street, Newcastle West

Submitted to Department of Planning and Environment
on behalf of NSW Department of Education

---

28 September 2023

GYDE.COM.AU

This report was prepared by:

Director: Mark Schofield

Senior Project Planner: Rachael Petherbridge

Project: P-22218

Report Version: Final - Amended post lodgement

Version	Version date	Comment
01	23 June 2023	**Final** Mitigation measures for lodgement
02	28 September 2023	**Final – Amended post lodgement** Mitigations measures updated in accordance with DPE RFI request and updated technical reports

1. MITIGATION MEASURES

A compilation of all the mitigation measures and recommendations as stated within the relevant supporting documentation is provided in Table 1 below.

The mitigation measures are ordered in accordance with section 6 of the Environmental Impact Statement. Table 1 identifies at which stage each mitigation is required to be undertaken.

Table 1: Mitigation Measures and Recommendations

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
Traffic, Transport and Accessibility			
1. A Construction Traffic Management Plan (CTMP) shall be prepared and followed during the construction phase of the project to ensure: a. An appropriate and convenient environment for pedestrians. b. Impact on pedestrians is minimised. c. Appropriate capacity for pedestrians is maintained at all times on footpaths around the site. d. Appropriate public transport access is maintained. e. Current levels of parking within the precinct is maintained. f. Permanent access to/ from the site is accessible for emergency services. g. Access for construction vehicle is designated. h. Construction vehicle activity around the site is controlled. i. The impacts to general traffic in the vicinity of the site is minimised.		✓	
2. Advocate to Newcastle Council and Transport for NSW to implement interventions to reduce vehicle speeds on the roads surrounding the school.			✓
3. DoE to make an application under s.138 of the *Roads Act 1993* to extend the Parkway Avenue bus zone and drop off zones.		✓	
4. DoE to make an application under s.138 of the *Roads Act 1993* to create a new drop off and pick up zone on Smith Street.		✓	
5. DoE to appoint a School Travel Coordinator for 12 months from the commencement of operation of the new facilities,			✓

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
to implement the Green Travel Plan.			
6. Preparation of a final Green Travel Plan, consistent with the draft Green Travel Plan (Stantec December 2022) and any relevant conditions of consent. a. The Green Travel plan is to incorporate measures to promote use of the National Park Avenue kiss and drop zone by the school community			✓
7. Pedestrian crossings (line markings for temporary crossings) are to be provided at the Parkway Ave roundabouts with National Park Street and Smith Street, if the City of Newcastle do not construct pedestrian crossings in these locations by the completion of Stage 2.		✓	
Noise and Vibration			
8. Project Specific Acoustic Measures – Acoustic amelioration measures will be required due to the expected exceedances of the noise level criteria. Temporary shielding such as solid hoarding/acoustic curtains may reduce the expected noise impacts and is proposed as a noise control measure during construction. The location and extent of the shielding are to be defined in the detailed Construction Noise and Vibration Management Plan (CNVMP).		✓	
9. General Control Elements – Construction noise and vibration shall be managed by implementing the strategies listed below: a. Plant and equipment. controlling noise and vibration at the sources is one of the most effective methods of minimising the impacts from any work site activities. Work practices that will reduce noise and vibration at the source include: i. Employing quieter techniques for all high noise activities such as rock breaking, concrete sawing, and using power and pneumatic tools. ii. Use quieter plant and equipment based on the optimal power and size to most efficiently perform the required tasks. iii. Selecting plant and equipment with low vibration generation characteristics. iv. Operate plant in a quietest and most effective manner. v. Where appropriate, limit the operating noise of	✓	✓	✓

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
equipment. vi. Regularly inspecting and maintain plant and equipment to minimise noise and vibration level increases, to ensure that all noise and vibration reduction devices are operating effectively. b. On site noise management. Practices that will reduce noise from the site include: i. Maximising the distance between noise activities and noise sensitive receivers. Strategically locate equipment and plant. ii. Undertaking noisy fabrication work off-site where possible. iii. Avoid the use of reversing beeping alarms or provide for alternative systems, such as broadband reversing alarms. iv. Maintaining any pre-existing barriers or walls on a demolition or excavation site as long as possible to provide optimum sound propagation control. v. Constructing barriers that are part of the project design early in the project to afford mitigation against site noise. vi. Using temporary site building and material stockpiles as noise barriers. These can often be created using site earthworks and may be included as a part of final landscape design. vii. Installing purpose built noise barriers, acoustic sheds and enclosures c. Work scheduling. Scheduling work during periods when people are least affected is an important way of reducing adverse impacts. The following scheduling aspects may reduce impacts: i. Provide respite periods, including restricting very noisy activities to daytime, restricting the number of nights that after-hours work is conducted near residences, or by determining any specific requirements, particularly those needed for noise sensitive receivers. ii. Scheduling activities to minimise impacts by undertaking all possible work during hours that will least adversely affect sensitive receivers and by avoiding conflicts with other scheduled events. iii. Scheduling work to coincide with non-sensitive periods, to reduce impact on examinations. iv. Scheduling noisy activities to coincide with high			

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
levels of neighbourhood noise so that noise from the activities is partially masked and not as intrusive. v. Planning deliveries and access to the site to occur quietly and efficiently and organising parking only within designated areas located away from sensitive receivers. vi. Optimising the number of deliveries to the site by amalgamating loads where possible and scheduling arrivals within designated hours. vii. Designating, designing and maintaining access routes to the site to minimise impacts. viii. Including contract conditions that include penalties for non-compliance with reasonable instructions by the principal to minimise noise or arrange suitable scheduling. d. Consultation, notification and complaints handling. i. Provide information to neighbours before and during construction. ii. Maintain good communication between the community and Project staff. iii. Have a documented complaints process and keep register of any complaints. iv. Give complaints a fair hearing and provide for a quick response. v. Implement all feasible and reasonable measures to address the source of complaint. Implementation of all reasonable and feasible mitigation measures for all works will ensure that any adverse noise impacts to surrounding receivers are minimised when noise goals cannot be met due to safety or space constraints.			
10. Additional Noise and Vibration Control Measures – If, during construction, an item of equipment exceeds either the noise criteria at any location or the equipment noise level limits, the following noise control measures, together with construction best practices, shall be considered to minimise the noise impacts on the neighbourhood. a. Schedule noisy activities to occur outside of the most sensitive times of the day for each nominated receiver. b. Consider implementing equipment-specific screening or other noise control measures recommended in Appendix C of AS 2436:2010.		✓	

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
c. Limit the number of trucks on site at the commencement of site activities to the minimum required by the loading facilities on site. d. When loading trucks, adopt best practice noise management strategies to avoid materials being dropped from height into dump trucks. e. Avoid unnecessary idling of trucks and equipment. f. Ensure that any miscellaneous equipment (extraction fans, hand tools, etc) not specifically identified in this plan incorporates silencing/shielding equipment as required to meet the noise criteria.			
11. Public address and school bell system – shall be designed and operated in accordance with the following: a. Low-powered horn-type speakers shall be designed, installed, and operated such that the system does not interfere unreasonably with the comfort and repose of occupants of nearby receivers. b. Speakers shall be mounted with a downward angle and as close to the floor as possible. c. The noise level of the system shall be adjusted onsite to ensure it is audible for the school without being excessive. The system shall be set to ensure the noise at nearby residences and sensitive receivers does not exceed noise level criteria. d. Once the appropriate nose level has been determined onsite, the system shall be limited to these noise levels so that staff cannot increase the noise levels.		✓	✓
12. School windows are to be shut when there is high noise generating works occurring outside.		✓	
13. Noise and Vibration levels will be monitored from time to time to ensure that noise generated does not disturb noise and vibration sensitive receivers. Monitoring is to be undertaken by an experienced noise and vibration monitoring professional or an acoustic consultant. The results of the monitoring are to be provided to the Construction Manager for review and action, where required.		✓	
Flooding			

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
14. The Flood Emergency Response Plan prepared by BMT (is to be implemented during construction and occupation of any of the new buildings or refurbished buildings.		✓	✓
Heritage			
15. Prior to demolition archival photography is to be undertaken of buildings to be demolished.	✓	✓	
16. Test excavations a. Test excavations are to be undertaken in the northeast green space under Section 139(4) of the *Heritage Act 1977* "excavation permit exceptions". Archaeologists are to create a grid plan and excavate 1 m by 1m squares in predetermined areas. Topsoil and potential artefact bearing deposits will be removed with archaeological supervision and a record made. Excavation will cease once culturally sterile deposits are reached after which, the area will not be subject to further archaeological monitoring, but an unexpected finds protocol will be implemented. b. No excavation works shall occur since such time that the Aboriginal Cultural Heritage Plan (ACHP) has been prepared to ensure no impact to Aboriginal relics.	✓	✓	
17. Discovery of relics a. The discovery of relics will result in: i. NSW Heritage being notified of the relic/s under Section 146 of the Heritage Act 1977 and ii. Avoidance through changing of construction plans; or further archaeological excavation with excavation permit (Section 140) if impacts cannot be avoided.		✓	
18. Archaeological monitoring a. Archaeological monitoring of demolition and excavation works under Section 139(4) of the Heritage Act 1977 "excavation permit exceptions" is to occur for all other areas of the school site. If archaeological resources are found: i. A stop works will be implemented and an archaeologist will determine if the find meets the definition of relics. If not, a relic works may proceed. If a relic works stop and NSW Heritage will be notified of the relic/s under Section 146 of the Heritage Act 1977.		✓	

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
ii. The discovery of relics will result in one of two courses of action: avoidance through changing of construction plans; or archaeological excavation if impacts cannot be avoided.			
19. Relocation of Building H In preparing a methodology for Building H, the builder must consider the mitigation measures nominated in the letter titled, *Newcastle Education Campus SINSW – Building H Relocation* by Stantec (8 May 2023). Key recommendations contained in the letter are: a. The destination location will need to have footings installed to match the current arrangement. b. If the building is to separated into section, careful consideration to the location of the joints must be made by a structural engineer and heritage expert, to ensure the long term stability of the building.	✓	✓	
Contamination and Remediation			
20. Remediation of the site must occur in accordance with the requirements of the RAP and under the direction of the Site Auditor.		✓	
21. On completion of remediation works a long term environmental management plan must be prepared in accordance with NSW EPA guidelines.			✓
22. Implementation of interim measures to minimise potential exposure to student, staff and workers at the site. a. Exposed soils at test locations (pits etc) or bare areas with visible anthropogenics including ash, glass, porcelain etc are top dressed and/or turfed after raking and collection of larger fragments to minimise exposure; b. Staff are made aware of potential surface ACM impacts and encouraged to report any observed fragments to management who should arrange for localised collection, disposal and reporting of fibro in grounds as per the school Asbestos Management Plan / SINSW standard procedures.	✓	✓	✓
Aboriginal Cultural Heritage			

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
23. Aboriginal Cultural Heritage Management Plan a. Prior to ground disturbance, an Aboriginal Cultural Heritage Management Plan (ACHMP) must be developed by a heritage specialist in consultation with the Registered Aboriginal Parties (RAPs) and consent authority to provide the post-approval framework for managing Aboriginal heritage within the project area. b. The ACHMP should also be prepared with consideration of European Heritage relevant to the site.	✓		
24. Heritage-interpretation strategy a. A heritage-interpretation strategy must be developed by a heritage specialist to identify the interpretive values of the project footprint, and specifically Aboriginal heritage values across the project area, and to provide direction for potential interpretive installations and devices. This strategy should be made available for consultation and feedback with the RAPs. Following consultation and feedback on the strategy, a heritage interpretation plan would refine the strategy with content (visual and textual) and design details in order to allow the implementation stage.	✓	✓	
25. Construction Environmental Management Plan a. The CEMP, or equivalent, should ensure that the cultural landscape is considered throughout the project and as part of the rehabilitation of the project area. In discussion with the Aboriginal community, rehabilitation of areas where infrastructure is not remaining after the project should be undertaken to determine suitable ecological communities and other factors in returning the cultural landscape as close to its current state as feasible.	✓		
26. Registered Aboriginal Party consultation a. Consultation should be maintained with the Registered Aboriginal Party during the finalisation of the assessment process and throughout the project.	✓	✓	✓
Built Form and Urban Design			
27. During the detailed design and prior to construction the requirements as stated within the Disability Access Report are to be incorporated into the design.	✓		
28. During the detailed design and prior to construction the	✓		

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
recommendations within the Disability Access Report are to be considered and included in the design where appropriate.			
29. New facilities must comply with the performance requirements of the 2019 National Construction Code (NCC) and the associated standards (AS 1428.1, AS1428.2 & AS1428.4). Acknowledging that the existing buildings may not be able to provide this level of access.	✓		
Visual Impact			
30. Implementation of the landscaping plan prepared and submitted with the DA. Planting to be undertaken as soon as practicable.		✓	
31. A landscape maintenance schedule is to be prepared to identify maintenance requirements and practices to be implemented.			✓
Trees and Landscaping			
32. A Tree Protection Plan is to be prepared to instruct the builder on the trees to be retained can be protected throughout the development process. The Plan is to be prepared in accordance with the requirements of Appendix 4 (Tree Protection Plan) of the Arborist Report prepared by Joseph Pidutti Consulting Arborist (Issue date: 27/09/2023). The plan is to identify retention of all trees as recommended in Appendix 8 - Tree Protection Zones and Impacts of the Arborist Report prepared by Joseph Pidutti Consulting Arborist (Issue date: 27/09/2023).	✓		
33. Tree works are to be carried out by a qualified tree contractor in accordance with Australian Standard 4373-2007 and in accordance with the Code of Practice Amenity Tree Industry (August 2007). The person supervising pruning works should have a minimum qualification of AQF Level 3. Pruning works should be carried out by a person who has the minimum qualification of AQF Level 2.		✓	
34. Suitably qualified arborist (AQF level 5 or equivalent) to be on site to supervise excavation and works within an established TPZ.		✓	
35. Demolition of existing buildings, foundation footings, slabs, and pavements within the TPZ's of trees to be retained			

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
must carried out carefully. All demolition works are to be carried out in accordance with the requirements of Appendix 5 (Tree Protection Zone Specification – Demolition) of the Arborist Report prepared by Joseph Pidutti Consulting Arborist (Issue date: 27/09/2023)		✓	
36. Construction of new buildings and other school facilities within the TPZ's of trees to be retained must be carried out carefully. All construction works are to be carried out in accordance with the requirements of Appendix 6 (Tree Protection Zone Specification – Construction) of the Arborist Report prepared by Joseph Pidutti Consulting Arborist (Issue date: 27/09/2023).		✓	
37. Tree Protection Measures must comply with Australian Standard 4970 – 2009 Protection of trees		✓	
38. Landscaping works should avoid excessive soil fill and any excavation should be only minimal (no more than 150mm) and undertaken in a manner that will avoid damage / severance to roots within the SRZ and / or excessive damage to roots within the TPZ.		✓	
39. Replant with trees that will be suitable and sustainable for long term retention within a school environment		✓	
Biodiversity			
40. No filling is to occur within 3m of the northern boundary to protect the vegetated riparian zone of the adjoining stream within National Park.		✓	
Ground and Water Conditions			
41. Dewatering Plan a. Implementation of the Dewatering Plan prepared by Douglas Partners (September 2023)		✓	
42. Structural design a. The proposed structural and civil elements of the development should be designed for site-specific soil / water aggressiveness in line with standard design measures.	✓		
43. Geotechnical considerations			

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
(a) Future structural and engineering designs must have regard to the comments and findings in section 6 of the Report on Geotechnical Investigation prepared by Douglas and Partners (May 2023).	✓	✓	
Waste Management			
44. During the construction and demolition phase the requirements of the C&D WMP (elephants foot 3 May 2023) must be met.		✓	
45. During the operational phase the requirements of the Operational WMP must be met.			✓
46. Hazardous Materials a. All hazardous materials within buildings to be demolished, as identified in the Hazardous materials survey are to be removed by a suitably qualified contractor. b. All hazardous materials removed are to be disposed of at a licenced waste facility.		✓	
Social Impact			
47. Extend the bus zone on Parkway Avenue to accommodate space for one additional bus to make the boarding and alighting of buses safer and reduce traffic congestion caused by bus banking.	✓	✓	
48. Reduce congestion and improve the pick-up and drop-off process by extending the kiss and drop off zone on Parkway Avenue and installing a new kiss-and-drop zone on Smith Street.	✓	✓	
49. Increase the mode share of cycling and micromobility by installing an additional 160 bicycle parking spaces.	✓	✓	
50. Include improvements to the student entry on Parkway Avenue to alleviate congestion.	✓	✓	
51. Maintain the onsite teacher / student car parking.	✓		
52. Engage with Council to discuss / promote additional interventions to alleviate traffic parking and safety issues raised by nearby residents including: • the introduction of additional traffic calming / speed reduction measures	✓		

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
• line marking to demarcate driveways in surrounding streets • review of speed humps along Parkway Avenue • condition of footpaths along National Park Street • approaches to bicycle safety • pedestrian crossings.			
53. Prepare and implement a Green Travel Plan for the construction phase.	✓		
54. Ensure universal design features are incorporated throughout the design of buildings and landscape.	✓		
55. Create an exclusive pick up and drop of zone for students with special needs.	✓	✓	
56. Improve landscaping in Block H to accommodate Aboriginal Programs with upgraded facilities.	✓	✓	
57. Develop and implement a conservation management plan (CMP) prior to construction certificate to address the built heritage within the project area. This will address any conservation zone, views and vistas along with impacts on built heritage.	✓		
58. Ensure members of the NHS alumni are engaged in ways to reflect the history of the site in the architectural and / or landscape designs.	✓		
59. Maintain any perceived changes to sense of place through historic documentation of the site integrated with the design, or during construction by using hoardings	✓		
60. Design the facade in consultation with a heritage consultant to appropriately respond to the heritage of the existing buildings.	✓		
61. Ensure the height and setback of the new learning hub is similar to both heritage building's A & C.	✓		
62. Ensure any murals or other artefacts on the site are documented and opportunities for reinstatement or new works are provided.	✓	✓	
63. Develop a heritage interpretation plan, inclusive of First Nations elements, prior to construction certificate.	✓		

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
64. Develop an Aboriginal heritage management plan to guide post-approval requirements as identified in the Aboriginal cultural heritage assessment by EMM Consulting December 2022.	✓		
65. Develop an interpretation strategy that incorporates Aboriginal heritage values into the development.	✓		
66. Implement opportunities identified through consultations with First Nations People, which may include integrating Connecting with Country design elements where there is design flexibility, which may include the façade landscaping, and walkways.	✓		
67. Ensure opportunities for Connecting with Country outputs are reflected in architectural and landscape plans.	✓		
68. Design outdoor learning areas for connection to Aboriginal culture and stories.	✓		
69. Incorporate native planting and indigenous design in landscaping and finishes through inlays, patterns, colours etc.	✓		
70. Increase on site opportunities for bicycle storage and active transport options.	✓	✓	
71. A Construction Management Plan (CMP) is to be prepared prior to Construction Certificate with mitigation measures that will be implemented to reduce the impacts associated with noise and vibration. Noise or vibration impacts will be mitigated in accordance with the recommendations of the Noise and Vibration Impact Assessment prepared by JHA Consulting Engineers. Noise mitigations identified in the CMP should be particularly cognisant of and take measures to minimise effects on: • neurodiverse students attending the school • nearby residents as defined by this social impact assessment, and particularly those residents nearest building B, on the corner of Parkway Avenue and National Park Street pending demolition • nearby residents pending the removal of any trees • nearby residents where construction activities are likely to cause noise disturbances.	✓		

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
The CMP should also address communication methods used to determine and contact nearby residents, and those that may have a mental health condition or the elderly, pending any activities likely to create undue noise.			
72. Relocate the music room further away from the residences and install adequate acoustic barriers.	✓	✓	
73. A CMP is to be prepared prior to Construction Certificate with mitigation measures will be implemented to reduce the impacts associated with poor air quality. The CMP should specifically identify: • communication methods used to inform students, staff and nearby residents of any pending activities likely to reduced air quality • communication methods used to determine and contact any asthma sufferers pending any activities likely to reduced air quality • a list of appropriate measures to mitigate reduced air quality for the specific stakeholders above and other nearby residents.	✓		
74. Mitigate risks associated with climate change through the integration of Environmentally Sustainable Design (ESD) measures	✓		
75. Increase the tree canopy to a minimum of 31%	✓	✓	
76. Implement measures identified in the GHD Sustainable Development Plan.	✓		
77. Review access to and from the site for all forms of school transport, identify potential hazards and demarcate restricted areas	✓		
78. Develop a Construction Management Plan prior to Construction Certificate. The Plan should specifically identify safety measures associated with, but not limited to: • construction noise (with attention to neurodiverse students) • air quality • student and staff site entry • construction staff entry and exit points • construction staff parking • pick up and drop off.	✓		

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
79. Develop and implement a conservation management plan to address the built heritage within the project area. This will address any conservation zone, views and vistas along with impacts to heritage.	✓		
80. Establish tree protection zones around existing trees.	✓	✓	
81. Identify replacement trees in Landscape Design Report.	✓		
82. Undertake landscape improvements according to the Landscape Design Report.	✓	✓	
83. The multipurpose hall must be engineered to withstand H5 flood hazards.	✓		
84. Meet the NSW Government requirements for Aboriginal participation in employment contracts.	✓		
85. Develop a Construction Management Plan prior to Construction Certificate. The Plan should specifically identify safety measures associated with, but not limited to: • student and teacher safety, including noise and air quality • public safety and amenity including noise and air quality • site and security planning • heritage management • contact details of essential site personnel, construction period and operating hours • community information, consultation and complaints management • noise, vibration, asbestos and dust management • tree protection • traffic, access and parking management.	✓		
86. Ensure ongoing engagement with the students, parents, carers, and other relevant stakeholders including the alumni and First Nations communities to maintain and build an ongoing connection with the school during construction.		✓	
87. Maintain ongoing engagement to update nearby residents, the NSCG and other relevant stakeholders with an association with the school during construction. Updates should include information regarding any specific findings		✓	

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
on the site during construction			
88. Create opportunities for Aboriginal students and / or local artists to be involved in implementing Connecting with Country design approaches		✓	
89. Develop an issues register for ease of documentation of concerns throughout the construction and transition process to ensure that issues are addressed timely and adequately.		✓	
90. Establish a Bi-weekly progress meeting involving the contractor, SINSW and school staff representatives to identify emergent issues and proactively address challenges before they escalate.		✓	
91. Maintain ongoing proactive communication with nearby residents to identify emergent issues before they escalate.		✓	
92. Ensure those most likely to be impacted during demolition of building B (cnr Parkway Avenue and National Park Street) are consulted prior and during the demolition period to identify any noise issues and offer assistance with any mitigation measures.		✓	
93. Construction work is to be coordinated to avoid disruptions to student exams		✓	
94. Any construction works conducted outside designated hours identified in the Conditions of Consent will require advance notification to nearby residents.		✓	
95. Ensure measures are considered to limit any noise exposure to neurodiverse or other students that may be sensitive to noise.		✓	
96. Proactively communicate with nearby residents prior to the demolition of building B (cnr of Parkway Avenue) and any other potential dust making activities to advise of the pending activity and assist with appropriate dust reduction measures.		✓	
97. Ensure required monitoring devices are in place to detect reductions in air quality.		✓	

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
98. Proactively communicate with nearby residents prior to the demolition of building B (cnr of Parkway Avenue) and any other potential activities requiring asbestos removal to advise of the pending activity and assist with appropriate measures.		✓	
99. Ensure required monitoring devices are in place to detect atmospheric asbestos release.		✓	
100. Immediately inform school staff and nearby residents of reduced air quality as identified through hygienist consultant advice.		✓	
101. Stage construction to allow for the continued safe operation of the school while construction takes place.		✓	
102. Develop and implement a child focussed educational program focussed on safety around the construction site.		✓	
103. Establish clear site entry and exit points that are separate from the general school community to ensure workers and students do not interact.		✓	
104. Using visual mediums during regular community updates and letterbox drops, demonstrate to nearby residents' trees that will be removed and replacement trees specifically identifying additional shade coverage and shaded areas.		✓	
105. Implement strategies and measures associated to manage any residual flood risk as identified in the Flood Emergency Response Plan.		✓	
106. Provide bi monthly (every two months) Newcastle School Community Group information update events or collateral during the construction phase.		✓	
107. Provide regular general updates to nearby residents throughout the construction phase.		✓	
108. Provide updates for specific and significant construction events including, but not limited to: • demolition of building B • tree removal • asbestos removal		✓	

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
• works causing traffic impacts			
109. Consider alerting local businesses to impending construction activity.		✓	
Operational Phase			
110. Promote the utilisation of the new library and multipurpose courts by working with Newcastle Council to implement the NSW Department of Education's Community Use of School Facilities.			✓
111. Engage with Council to discuss / promote additional interventions to alleviate traffic parking and safety issues raised by nearby residents including: • the introduction of additional traffic calming / speed reduction measures • line marking to demarcate driveways in surrounding streets • review of speed humps along Parkway Avenue • condition of footpaths along National Park Street • approaches to bicycle safety.			✓
112. Implement the school travel plan prepared in conjunction with the NSW Department of Education, The APP Group, City of Newcastle Council, Transport for NSW, and with reference to the NSW Department of Education Transport Assessment and School Transport Plan Report Guidelines.			✓
Construction Management			
113. A Construction Environmental Management Plan (CEMP) is required to be prepared by the appointed construction manager. The CEMP must adopt all relevant mitigation measures, including Aboriginal and European cultural heritage. The CEMP must incorporation a noise and vibration environmental management plan. That plan must have regard to the control measures identified in s.7.4 of the Noise and Vibration Impact Assessment prepared by JHA (dated 18 May 23 v3) The CEMP must include a community engagement and communications plans, incorporating the requirements of the Social Impact Statement.	✓	✓	

Mitigation Measure	Prior to Construction	During Construction	Ongoing Operation
114. The erosion and sediment control plan must be implemented.	✓	✓	
Site Infrastructure			
115. The hydraulic design shall meet the requirements of Hunters Water Notice of requirements after the Section 50 Compliance Certificate.	✓	✓	
116. An application for a new connection and new gas meter set shall be submitted for approval to Jemena.	✓	✓	
117. The existing stormwater pipes discharging into the stormwater channel “National Park Branch’, will be die tested, to determine which are redundant. All redundant pipes are to be capped or demolished and removed from the site. No new direction connections to the stormwater channel will be created.		✓	
118. Stormwater Infrastructure will be maintained in accordance with the Stormwater Maintenance Schedule in s.11.5 of the Integrated Water Management Plan prepared by Stantec (Date 10 May 2023)			✓