



19th May 2020

The Planning Secretary
Department of Planning, Industry & Environment
320 Pitt Street
Sydney, NSW 2000

Attention: Megan Fu
Project: Nihon University Newcastle Campus - SSD 9787
Re: Conditions of Consent C08

Dear Megan,

Reference is made to SSD 9787 Conditions of Consent C8 in relation to the Construction Environmental Management Plan [CEMP] requirements for the development and our correspondence dated 22nd January 2020.

Please find attached the updated Construction Environmental Management Plan [CEMP] prepared by Built Pty Ltd addressing items raised in the corrective actions and recommendations section of the GHD Independent Environmental Audit 01.

Should you require further clarification on the updated CEMP please feel free to contact either Katherine Daunt or Edward Clode at dwp Australia Pty.

Yours sincerely,

Edward Clode
Design Director
Registered Architect – NSW ARBN 4100

Email: edward.c@dwp.com

File: 17-0347_A-d01-20_let

Encl.: Built Nihon University Construction Environmental Management Plan Rev 01



Construction Environmental Management Plan

Project Name:	Nihon University Newcastle Campus
Project Address:	9 Church Street, Newcastle NSW 2300
Project Number:	201229
Client:	Nihon University C/O AZUSA SEKKEI & DWP SUTERS
Revision:	Revision 01
Revision Date:	13/05/2020

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0.0 Document Control

Revision	Date	Changes Description	Author
A	20/01/2020	Revision A – For submission to Dept. Planning	Ben Moss
01	13/05/2020	Amendments made as required by GHD Independent Environmental Audit 01 – Corrective Actions & Recommendations	Ben Moss

Revision	Organisation	Submission	Copies
A	Dwp Newcastle	For Submission to NSW DPIE	1
	Dix Gardner Group	For Information	
01	Dwp Newcastle	For Submission to NSW DPIE	1
	Dix Gardner Group	For Information	
	GHD Newcastle	For Information	

1.0 Introduction

The purpose of this Construction Environmental Management Plan (CEMP) is to provide project stakeholders with detailed construction methodology information relating to the new **Nihon University Australia Newcastle Campus**. The CEMP is to be read in conjunction with the Built Project HSE Plan and Appendices.

The information provided is for stakeholder reference and to highlight the strategies Built have considered to ensure that the activities occurring on site do not adversely impact the environment and the health and safety of the public and site personnel.

1.1 Contractor Details

Principal Contractor:	Built Pty Ltd – Newcastle & Hunter
Address:	Level 1, 155-157 Lambton Road, Broadmeadow NSW 2292
Telephone (Office):	(02) 4077 5900
Fax (Office):	(02) 4077 5909

1.2 Project Contacts

Company	Position	Name	Contact Details
BUILT	Site Manager (24 Hour Contact)	Leif Aleksic	0439 913 387
BUILT	Construction Manager	Rob McLaughlin	0478 597 116
BUILT	Project Manager / Community Liaison	Ben Moss	0401 088 850
BUILT	HSE Officer	Michael Louis	0421 844 024
Dwp Newcastle	Superintendent / Architect	Ed Clode	02 8080 7917
Dix Gardiner Group	Private Certifying Authority	Scott O'Donohue	02 4940 0355
NSW DPIE	Planning Secretary	-	1300 305 695
NSW DPIE	Newcastle Regional Office	-	02 4904 2700
NSW EPA	Pollution / Services Hotline	-	131 555
City of Newcastle	Local Council	-	02 4974 2000
Hunter Water	Water & Sewer Authority	-	1300 657 000
AusGrid	Electrical Authority	-	13 13 88
Jemena	Gas Authority	-	131 909
SafeWork NSW		-	13 10 50
Fire & Rescue NSW	Newcastle Fire Station	-	000 (Emergency) 02 4927 25 35 (HAZMAT)
NSW Police – Newcastle Local Area Command	Newcastle Police Station	-	000 (Emergency) 02 49290947
Roads Authority	RMS	-	13 22 13

2.0 Project Overview

2.1 Project Location

The project is situated on the site of the former Newcastle Courthouse is located at Lot 1 DP1199904 - 9 Church Street, Newcastle NSW 2300.



Figure 1: Aerial view of the site



Figure 2: Site overview shown in yellow and surrounding area

2.2 Project Details

The project consists of the complete demolition of 2 x existing 3 storey buildings, site remediation (including the management of any resultant contamination, mine workings or archaeological findings), the restoration and refurbishment of the retained and state heritage listed Newcastle Courthouse building and the construction of 2 x 4 storey buildings comprising student accommodation in the eastern building and teaching space\carpark in the western building. The expected completion date of the project is May 2021.

The scope of works to be executed in relation to this project includes:

- Demolition of 2 x existing 3 storey buildings;
- Remediation of exposed ground conditions;
- Monitored excavation for items of archaeological significance (both Aboriginal & European);
- Temporary & permanent retaining structures & ground anchors to neighbouring structures;
- Bulk and detail excavation;
- Piling foundations;
- Reinforced concrete structure;
- Façade comprising painted & rendered concrete and CFC sheet with punch windows and attached aluminium louvres;
- Residential building to include ground floor cafeteria, commercial kitchen, laundry and associated common spaces with 3 levels of student accommodation above;
- Educational building to include ground floor car park with 3 levels of teaching space above;
- D&C scope for all services;
- 101 bedrooms in residential building within approx. 3200 m2 GFA.
- 21 teaching spaces in education building within approx. 1,800m2 GFA
- 20 car park spaces on ground floor of education building within approx. 800m2

2.3 Special / Unique Aspects of the Project

Special requirements and/or unique aspects of this Project include:

- Heritage component to both retained Courthouse building and perimeter retaining brick wall on southern (partial) and western boundaries.
- Site contamination, existing mine workings and archaeological significance (both Aboriginal & European) to remediate \ manage.
- Temporary \ permanent retaining required with ground anchors into neighbouring property (James Fletcher Hospital).
- Working on a site with effectively boundary to boundary construction and with sensitive neighbours i.e. Newcastle Police Station and James Fletcher Hospital either side and to the rear of the site (including

operations call centres at both premises). There are also nearby residential properties and businesses, including Newcastle Grammar School and a Hotel in the immediate vicinity.

- The project is virtually adjacent to the track for the annual Newcastle Coates 500 Supercars event held on the 3rd week of November.
- Green Star target rating of four (4).

2.4 Approved Hours of Construction

SSD-9787 Conditions D4-D7 specify the approved hours of construction and are detailed below:

D4. Construction, including the delivery of materials to and from the site, may only be carried out between the following hours:

- a) between 7 am and 6 pm, Mondays to Fridays inclusive; and
- b) between 8 am and 1 pm, Saturdays.

No work may be carried out on Sundays or public holidays.

D5. Construction activities may be undertaken outside of the hours in condition D4 if required:

- a) by the Police or a public authority for the delivery of vehicles, plant or materials; or
- b) in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or
- c) where the works are inaudible at the nearest sensitive receivers; or
- d) where a variation is approved in advance in writing by the Planning Secretary or his nominee if appropriate justification is provided for the works.

D6. Notification of such construction activities as referenced in condition D5 must be given to affected residents before undertaking the activities or as soon as is practical afterwards.

D7. Rock breaking, rock hammering, sheet piling, pile driving, and similar activities may only be carried out between the following hours:

- a) 9am to 12pm, Monday to Friday;
- b) 2pm to 5pm Monday to Friday; and
- c) 9am to 12pm, Saturday.

3.0 Environmental Management System Overview

3.1 Construction Environmental Management Plan

The primary purpose of the CEMP is to provide a project specific Environmental Management Plan that describes the environmental strategy, methods, controls and requirements of SSD-9787 Development Consent conditions outlined in Section 4.0 of the CEMP and the project's environmental studies listed below:

- Environmental Impact Statement by City Plan (dated May 2019)
- Conservation Management Plan by TKD Architects (dated August 2015)
- Statement of Heritage Impact by John Carr Heritage Design (dated May 2019)
- Aboricultural Impact Assessment Report by Joseph Pidutti Consulting Arborist (dated November 2018)
- Traffic and Parking Assessment Report by Better Transport Futures (dated March 2019)
- Noise and Vibration Assessment Report by EMM Consulting (dated May 2019)
- Remediation Action Plan by Douglas Partners (dated April 2020)
- Aboriginal Cultural Heritage Management Plan by AMAC (dated March 2020)
- Archaeological Research Design and Excavation Methodology by AMAC (dated February 2020)

The CEMP is to be read in conjunction with Built's Project HSE Plan and Appendices.

The SSD Conditions required the preparation of the following environmental issue-specific sub-plans to the CEMP with relevant Sections within the CEMP shown:

- Construction Traffic & Pedestrian Management Sub-Plan (**Section 6.0**)
- Construction Noise & Vibration Management Sub-Plan (**Section 7.0**)
- Construction Waste Management Sub-Plan (**Section 8.0**)

3.2 Environmental Policies

Built's environmental policies describe Built's commitment to continual improvement in environmental performance and compliance with applicable legal requirements and has been developed in accordance with requirements outlined in Section 4.2 of ISO 14001.

The environmental policies are displayed at all time within induction rooms and the site office and communicated to staff and other interested parties via inductions and site meetings.

Built.

Environmental Management Policy

Our Aim

Built is committed to establishing and maintaining ours and our clients work environments with priority given to minimising adverse environmental effects from our activities and fostering a culture of sustainable environmental management.

The Built environmental strategy is the ongoing development of a system based on AS/NZS ISO14001, legislation and applying the principles of best practice environmental management to our activities. Built is committed to objectives and individual programs by applying proactive approaches to environmental stewardship through:

- Identifying environmental activities, aspects and impacts and applying appropriate environmental actions
- Minimising the effects of our activities on the environment
- Preventing pollution
- Complying with applicable environmental laws and regulations, Codes of Practice and Guidelines leading to the development of appropriate monitoring, measurement and review activities
- Working cooperatively with our clients and responsible agencies in exercising environmental due diligence at all stages
- Conducting relevant environmental education and training to improve awareness, knowledge and skills
- Developing and implementing plans and procedures for the effective operation and management of our processes
- Meeting Performance Standards and Key Performance Indicators, and taking action to improve performance through regular and formal reviews
- Communicating with staff, clients and stakeholders on all areas on environmental performance

Built acknowledges this environmental policy as a commitment that involves cooperation and consultation with all stakeholders to meet the company's business objectives.

Built is committed to continual improvement in environmental management. This includes regular monitoring, assessment and review of all aspects of the system by both internal and external audits.



Brett Mason
Managing Director
1 July 2018

Built.

Environmental Sustainability Policy

Our Aim

Built is committed to environmentally sustainable work practices and aspires to be recognised as a leading environmentally responsible contractor across all business operations Australia-wide.

Consistent with our Environmental Management Policy, we will seek to continually improve on environmental outcomes within the built environment through the adoption of best practice environmental sustainability principles, including:

- Eliminating, or where this is not possible, minimising waste from our activities and recovering resources for reuse or recycling
- Minimising our consumption and use of water and natural resources
- Reduce our carbon emissions to as low as is possible, through the efficient use of electricity and fossil fuels
- Protecting land quality and biodiversity from negative impacts associated with our operations
- Working cooperatively with our clients to achieve their objectives for environmental sustainability
- Raise the level of awareness of our staff, employees and contractors through the provision of training, instruction and information on the requirements for and importance of the sustainable use of natural resources and energy efficiency
- Work cooperatively in a consultative manner with our clients, responsible agencies and other stakeholders in exercising environmental due diligence across all areas of our business operations, including openly communicating, listening and responding to concerns of those potentially affected by our project operations
- Promoting the benefits of sustainable building design through the participation in and delivery of Green Star, NABERS rated projects and other world leading sustainability rating tools



Brett Mason
Managing Director
1 July 2018

3.3 Built Environmental Management System

BUILT will be working under the Built Management System (BMS). The BMS provides an integrated HSEQ framework that manages legal compliance, risks and opportunities at all levels of the business consistently and effectively.

The system comprises of policy, planning, implementation and operation, monitoring and review. Built maintains documented policies and procedures to ensure Built's aims, priorities and overall objectives are clearly communicated and understood at all levels of the organisation.

Built's Environmental Management System (EMS) is a component of the BMS and is ISO 14001 certified, meeting the requirements of the NSW Government Environmental Management Guidelines.

An overview of Built's environmental management document system for the project is shown below in Figure 3

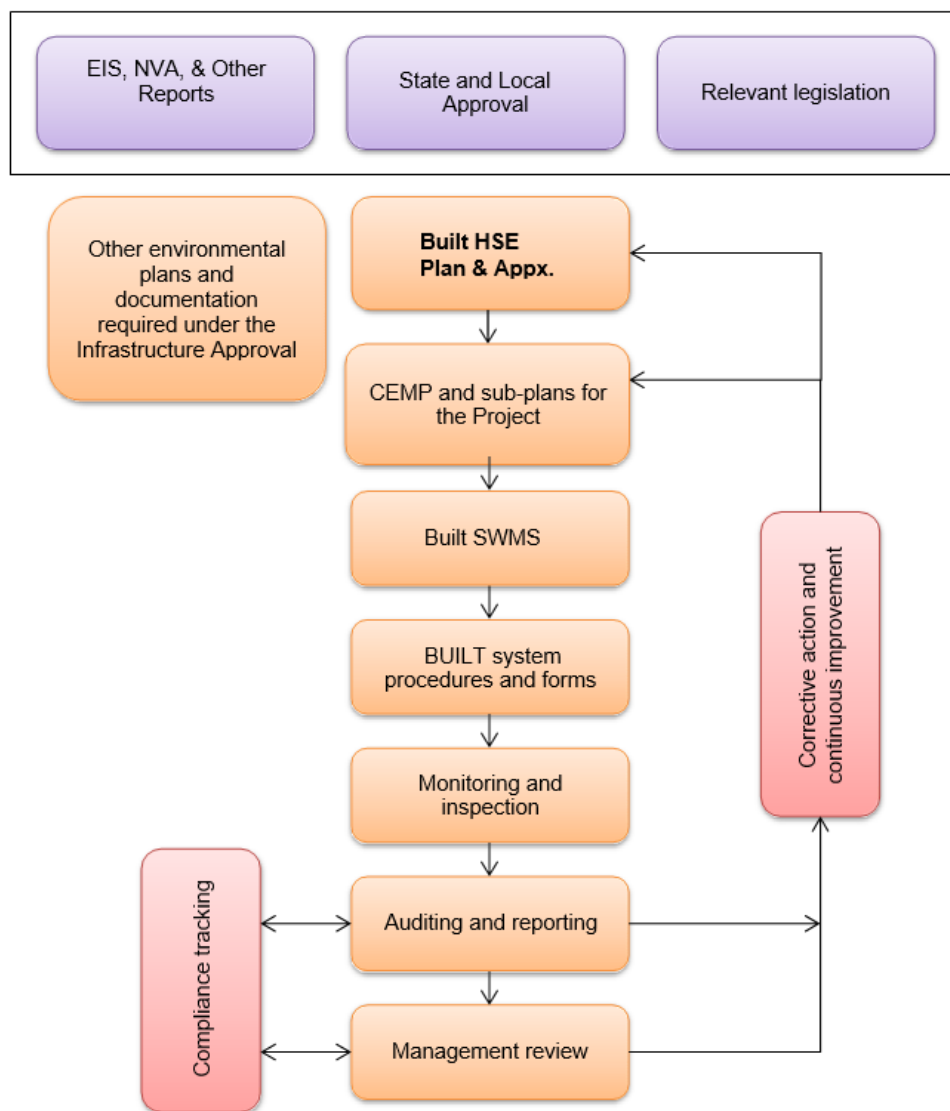


Figure 3: Built environmental management system overview

3.4 Purpose of the Construction Environmental Management Plan

The purpose of the Construction Environmental Management Plan is to:

- Identify the environmental issues (aspects and impacts) relevant to the project
- Establish the environmental and operational controls to reduce any adverse impacts on the environment from the company's activities, products and services.
- Describe the methods and processes by which the project will maintain compliance with all relevant environmental legislation, any applicable license, approval and permit, regulatory requirements
- Ensure the works are effectively managed so as to eliminate or reduce potential adverse impacts on the environment as a result of construction activities.
- Action any outcomes from incidents or accidents, project audits or other identified non-conformances and to continually improve the Environmental Management System.

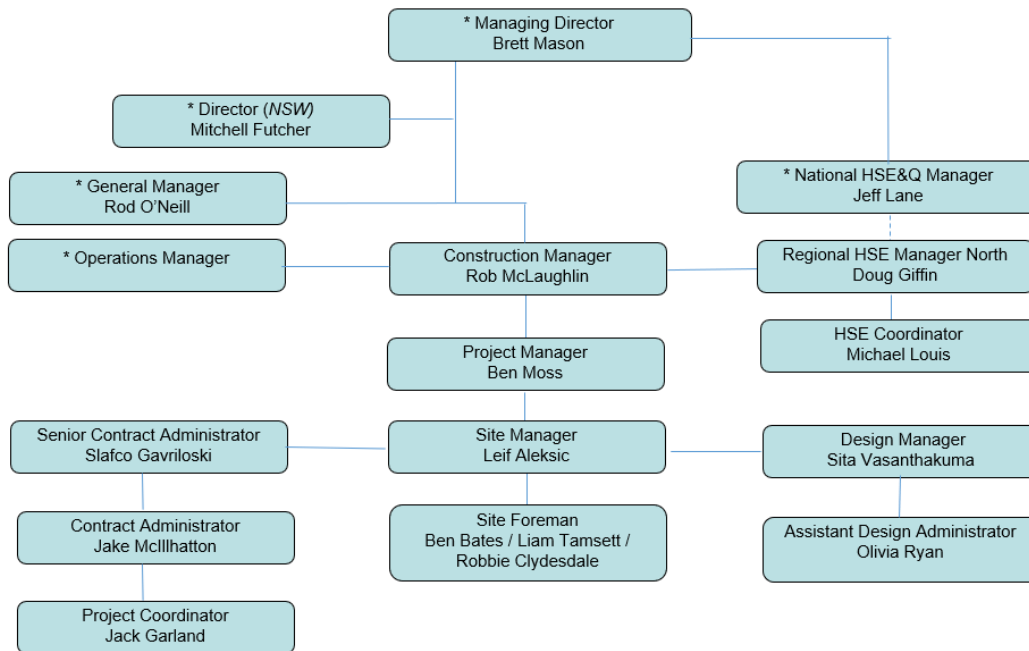
3.5 Environmental Objectives

Built's environmental objectives for the project are:

Aspect	Objective	Target	Measurement Tool
Waste / Green Star	To minimise waste going to landfill	90% landfill diversion	Audits, compliance reporting
Sediment & Erosion Control	To prevent sediment from entering waterways or stormwater	Zero incidents	Audits, monitoring, implementation and review of control plans
Water Quality	To prevent contamination of water ways	Zero incidents of water way pollution	Audits, monitoring, implementation and review of control plans
Noise & Vibration	To proactively minimise the generation of noise and vibration	Minor exceedances only and respond to community concerns within 24 hours	Audits, monitoring, implementation and review of methodology and control plans
Air Quality	To proactively minimise impacts of dust, odour, emissions to air quality	Respond to any community concerns immediately and	Audits, monitoring, regular reviews of methodology and control plans
Heritage / Archaeology	To maintain all heritage items and minimise disturbance during construction	Zero damage to heritage items or archaeological relics	Audits, monitoring, revision of management plans in response to NCRs
Regulatory Framework	Construction of the project in accordance with the environmental regulatory framework and development consent	Full compliance with statutory approvals & legal requirements	Audits, monitoring, compliance construction reporting
Community & Consultation	Engage and consult effectively with Authorities and the community, and to respond to complaints / concerns quickly.	Regular communication with community through notices and updates. Record and respond to complaints within one working day and/or as reasonably practical	Review complaints register, construction compliance reports
Site Contamination	To appropriately remediate the site and prevent additional contamination to the immediate and surrounding environment	Final validation and certification from the NSW EPA Accredited Site Auditor	Compliance reporting, site investigations and audits, monitoring, accurate site records

4.0 Environmental Management

4.1 Built Organisational Chart



4.2 Roles & Responsibilities

Construction Manager

- Always show visible leadership and lead by example;
- Allow for sufficient time and resources to implement the Company and Project HSE management systems and the Projects HSE plan;
- Review, approve and monitor the Project HSE Plan to ensure it remains up to date and in line with the project scope;
- Fulfil the assigned activities as out lined in **Built HSE Plan Appendix 3 HSE Documentation Administration Matrix** and as outlined elsewhere in this Plan;
- Fulfil and maintain HSE activities as outlined in **HSE-100 Senior Management Involvement Program**;
- Monitor project HSE performance, including lag and lead indicators, the timely closure of corrective and preventive action in respect of incidents and the results of HSE audits.

Project Manager

- Always show visible leadership and lead by example;
- Ensure a project specific HSE Plan, including the associated Appendices are developed for the project and are implemented and maintained;
- Ensure Built HSE Plan Appendix 3 HSE Documentation Administration Matrix is completed and roles are assigned to competent project team personnel;
- Fulfil the assigned activities as outlined in **Built HSE Plan Appendix 3 HSE Documentation Administration Matrix** and as outlined elsewhere in this Plan
- Review and accept Safe Work Method Statements (SWMS) for High Risk Construction Work (HRCW)

- Ensure all incidents are reported internally and externally, as required, and corrective/preventive action is closed out within applicable timeframes;
- Ensure appropriate consultation arrangements are established with the workforce, client and other stakeholders;
- Ensure that Built site staff and site personnel are provided with appropriate training, information, instruction and supervision in relation to HSE, including those necessary to comply with their assigned tasks and responsibilities as outlined in this HSE Plan;
- Ensure the company's injury management and return to work processes are implemented and maintained at the project level.
- Ensure HSE policies, management system and plans are communicated to workers as part of the site induction
- Manage the projects compliance with WHS/OHS legislation.

Design Manager

- Ensure Built's Safety in Design Evaluation (SIDE) process is implemented;
- Fulfil the assigned activities as outlined in **Built HSE Plan Appendix 3 HSE Documentation Administration Matrix** and as outlined elsewhere in this Plan
- Seek to eliminate or minimise HSE hazards associated with the design as early as possible in the design process;
- Reinforce with design consultants their obligations relative to designing within safe construction conventions wherever reasonably practicable;
- Facilitate project safety and environmental protection in design reviews and design team meetings.

Contracts Administrator

- Fulfil the assigned activities as out lined in **Built HSE Plan Appendix 3 HSE Documentation Administration Matrix** and as outlined elsewhere in this Plan
- Incorporate HSE requirements in all subcontracts and provide prospective Subcontractors with relevant HSE Documentation;
- Advise subcontractors of the process for submitting HRCW SWMS to Built for review prior to work commencing;
- Advise the subcontractor if they will be required to attend a pre-commencement meeting with members of the Built site team.

Site Manager

- Always show visible leadership and lead by example;
- Assist the most senior person on the project with the implementation and maintenance of this HSE Plan.
- Fulfil the assigned activities as outlined in **Built HSE Plan Appendix 3 HSE Documentation Administration Matrix** and as outlined elsewhere in this Plan;
- Issue directions to cease work for activities that do not comply with accepted safety and environmental controls or where work is being carried out contrary to the required HRCW SWMS;
- Review and accept Safe Work Method Statements (SWMS) for High Risk Construction Work (HRCW)
- Monitor the site and site activities to ensure these remain compliant with regulatory requirements and other requirements as identified in the HSE Management Plans;

Site Supervisor/Foreman

- Always show visible leadership and lead by example;
- Fulfil the assigned activities as outlined in **Built HSE Plan Appendix 3 HSE Documentation Administration Matrix** and as outlined elsewhere in this Plan;
- Issue directions to cease work for activities that do not comply with accepted safety and environmental controls;
- Review and understand SWMS for HRCW relating to work under their direct supervision;
- Assist in the development of SWMS for High Risk Construction Work / SOP's, JSAs and the like for Built and labour-hire employees;
- Consider workers competency in relation to assigned tasks, the operation/use of plant and equipment commensurate with the risks associated with work to be performed.

Project HSE Coordinator

- Always show visible leadership and lead by example;
- Assist the site in the preparation and maintenance of the Site HSE Management Plans.
- Fulfil the assigned activities as outlined in **Built HSE Plan Appendix 3 HSE Documentation Administration Matrix** and as outlined elsewhere in this Plan

Subcontractors

- Take reasonable care that personal acts and omissions do not adversely affect health and safety of other persons or cause harm to the environment;
- Comply with any reasonable instructions given by the Built Supervisor;
- Cooperate with Built by reporting all HSE incidents and unsafe conditions to the most senior person on the project;
- Report all work related injuries and illnesses to their supervisor and the nominated First Aider;
- Make recommendations on how to eliminate hazards or improve HSE on site;
- Seek the help of the Supervisor if unsure of any aspect of HSE requirements;
- Do not undertake any task, operate any plant or machinery unless authorised and qualified/trained to do so;
- Use correct tools and equipment and do not use them if they are not in good working order;
- Report to the Supervisor any tool/plant equipment that malfunctions and/or needs maintenance/repair;
- Use protective clothing and equipment provided;
- Work in accordance with the requirements of HRCW SWMS and Standard Operating Procedures and other task-specific documentation.

4.3 Regulatory Framework

4.3.1 Legal Requirements

Built is required to adhere to all legal requirements throughout the project, with special consideration given to those regarding heritage and the environment due to the project being a State Significant Development. The key legal requirements of the project are listed below in Table 1.

Table 1: Key Legal Requirements

Legal Requirement	Relevance
Contaminated Land Management Act 1997	Establishes a process for investigating and remediating contaminated land. This process includes the accountabilities, independent auditing, and short- and long-term management requirements.
Coal Mine Subsidence Compensation Act 2017	Relates to the assessment and management of mine subsidence risks on the project.
Dangerous Goods Act 2008	Relates to the on-road transport of dangerous goods to promote public safety and protect property and the environment. This applicable to the transport of contaminated waste from site and is addressed in the RAP prepared by Douglas Partners.
Dangerous Good Regulation 2014	Sets out the obligations of persons involved in the transport of dangerous goods from site.
Environmental Planning & Assessment Act 1979	Provides a development framework to promote sustainability, environmental (including cultural and heritage) protection, shared responsibility, and increased consultation.
Environmental Planning & Assessment Regulation 2000	Prescribed conditions of consent including shoring and adequacy of adjoining properties, notice to neighbours, erection of signage, removal of asbestos, development on contaminated land. Also provides requirements for the application and approval of Construction and Occupation Certificates.
Heritage Act 1977	Outlines the requirements to identify, protect and conserve State heritage listed elements of the project and identifies the roles and responsibilities of the Heritage Council.
Hunter Water Act 1991	Outlines requirements for the project in relation to the supply of water, provision of sewerage and drainage services and the disposal of wastewater.
National Construction Code & Building Code of Australia 2019	Outlines all technical requirements applicable to the project that are to be satisfied when undertaking building work or plumbing and drainage installations.
National Parks and Wildlife Act 1974	Relates to the conservation of objects, places or features of cultural value, specifically of Aboriginal and European significance on the project.

Newcastle Development Control Plan 2012	Provides detailed provisions relating to matters of significance to The City of Newcastle to be considered by Council when exercising its environmental assessment and planning functions under Part 4 of the Environmental Planning and Assessment Act 1979.
Newcastle Local Environmental Plan 2012	Provides provisions for developments to respect, protect and complement the natural and cultural heritage, identity and image, and sense of place in the City of Newcastle.
NSW Environment Protection Authority (EPA) 2017, Noise Policy for Industry (NPfI)	Sets out the requirements for the assessment and management of noise from industrial premises in NSW.
Protection of the Environment Operations Act 1997	Outlines requirements to protect the environment (air, noise, land, waste, notify of pollution incidents, and for mandatory environmental audits of the development.
Protection of the Environment Operations (Noise Control) Regulation 2008	Relates to prescribed noise limits of motor vehicles, time limits for the use of tools and other articles, and the inspection and testing of certain articles.
Protection of the Environment Operations (Waste) Regulation 2014	Outlines the requirements for recording, tracking, transporting and management of waste (including asbestos) throughout the development.
Roads Act 1993 (Section 138)	Outlines the requirements for when a permit is required for works and structures on public roads.
State Environmental Planning Policy (Infrastructure) 2007	Facilitates the effective delivery of infrastructure by identifying the environmental assessment category, matter to be considered in the assessment of development adjacent to types of infrastructure and providing for consultation with relevant public authorities.
State Environmental Planning Policy (SEPP) 55 – Remediation of Land	Specifies the requirements for the remediation of contaminated land for the purpose of reducing the risk of harm to human health or any other aspect of the environment.
State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017	Identifies the general conditions of complying development certificates for educational facilities
Work Health and Safety Act 2011	Provides a national framework to secure the health and safety of workers and the workplace (the development site).
Work Health & Safety Regulation 2017	Outlines the requirements and responsibilities of persons conducting a business or undertaking at a workplace must take to manage hazards and risks including, though not limited to, information, training and instruction, workplace facilities, control measures

4.3.2 SSD-9787 Development Consent

In addition to the legislative requirements above, Built must also comply with the SSD conditions of approval aimed to prevent or minimise environmental impacts throughout the duration of the works.

The key environmental conditions are listed in Table 2 below, while the Environmental Management Sub-Plans also outline those directly related to their specific environmental issues.

Table 2: SSD-9787 Conditions for environmental management during construction

Condition Number	Condition	Addressed
Part A – Administrative Conditions		
A1	In addition to meeting the specific performance measures and criteria in this consent, all reasonable and feasible measures must be implemented to prevent, and, if prevention is not reasonable and feasible, minimise any material harm to the environment that may result from the construction and operation of the development.	Mitigation measures to be implemented are identified within the CEMP & Sub-Plans. Built will take all reasonable and feasible steps to minimise harm to the environment.
A8	Where conditions of this consent require consultation with an identified party, the Applicant must: (a) consult with the relevant party prior to submitting the subject document for information or approval; and (b) provide details of the consultation undertaken including: (i) the outcome of that consultation, matters resolved and unresolved; and (ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.	Evidence of consultation is included in: EIS CTPMSP Appendix B CNVMSP Section 10.0 CWMSP Section 6.0 & Appendix A
A18 - A20	Additional investigations for site contamination following completion of demolition works and prior to the commencement of all other construction must be undertaken in accordance with the items (a) to (g).	Built has engaged Douglas Partners Geotechnical Engineers to complete additional investigations and prepare a Remediation Action Plan that has been submitted to the Independent Site Auditor (GHD). Built will implement the requirements of the RAP for the duration of the development.
A23	Monitoring and Environmental Audits as required and defined under Division 9.4 of Part 9 of the EP&A Act.	Built undertakes regular monitoring of implemented measures onsite to ensure compliance and their effectiveness. GHD has also been engaged as the Independent Environmental Auditor on the project. CEMP Sections 6.3, 7.3, 8.4, and 12.0
A25	The Applicant must ensure that all its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.	Built provides information and instruction relating to SSD Conditions, Management Plans, site specific environmental issues, mitigation measures, and responsibilities to all employees and sub-contractors

		through Pre-Commencement Assessment Meetings, Site Inductions, and Site Meetings. CEMP Section 4.6
A26 - A30	Incident & Non-Compliance Notification, Reporting and Response to The Planning Secretary	Built has incorporated the requirements for Incident & Non-Compliance Notification, Reporting and Response into the CEMP and Sub-Plans. CEMP Section 4.7
A31	Revision of Strategies, Plans and Programs	Built undertakes regular reviews of all Strategies, Management Plans and Programs in accordance with the HSE Audit & Assessment Schedule. CEMP Section 12.4
Part B – Prior to Issue of Construction Certificate		
B4	Protection of Public Infrastructure	Consultation with relevant service providers is included in the EIS and is ongoing throughout the design and construction phase of the project. A Dilapidation Report was also prepared and submitted to City of Newcastle, PCA, and DPIE.
B5	Pre-Construction Dilapidation Report	Dilapidation Reports were completed for adjoining private properties, heritage items, and Council assets. These have been submitted to Property Owners, CoN, Heritage NSW, and PCA.
B9	(a) All vehicles must enter and leave site in a forward direction. (c) Swept path of longest construction vehicle entering & exiting site must be in accordance with AS2890.2 (d) Safety of vehicles and pedestrians accessing adjoining properties is to be addressed.	Built has addressed this condition through mitigation measures listed in the CTPMSP. CTPMSP Section 5.1.3 & Appendix D
Part C – Prior to Commencement of Construction		
C5 & C6	Demolition Work Plans in accordance with AS 2601-2001 and evidence that impacts to heritage areas of high significant fabric have been limited.	Built's demolition sub-contractor, Drumderg Services, is a licenced and suitably qualified contractor. Demolition Work Plans and a written statement were prepared in accordance AS 2601-2001 and submitted to the PCA and DPIE. CWMSP Section 6.0 & Appendix C
C7	Environmental Management Plan Requirements	Built has prepared the CEMP & Sub-Plans required under the SSD

		Consent in accordance with this Condition.
C8	Construction Environmental Management Plan	Built has prepared the CEMP required under the SSD Consent in accordance with this Condition.
C10	Construction Traffic and Pedestrian Management Sub-Plan	Built and Gateshead Traffic Solutions prepared the CTPMSP in accordance with this condition and in consultation with City of Newcastle. CEMP Section 6.0
C11	Construction Noise and Vibration Management Sub-Plan	Built and RAPT Consulting prepared the CNVMSP in accordance with this condition and in consultation with adjacent property owners. The CNVMSP incorporates all recommendations contained within the Project EIS and Noise & Vibration Assessment by EMM Consulting. CEMP Section 7.0
C12	Construction Waste Management Sub-Plan	Built has prepared the CWMSP in consultation with Drumderg Services (licenced demolition and asbestos removal contractor) in accordance with this condition. CEMP Section 8.0
C13	Aboriginal Cultural Heritage Management Plan	Built engaged AMAC Archaeological to prepare the ACHMP in consultation with Registered Aboriginal Parties. CEMP Section 10.0
C14	Construction Worker Transport Strategy	A CWTS was submitted to, and accepted by, DPIE. CTPMSP Appendix F
C17 & C18	Archaeological Salvage – Historic Archaeology	Built engaged AMAC Archaeological to prepare a Archaeological Research Design and Excavation Methodology and Program. The ARDEM has been submitted to and accepted by Heritage Council. CEMP Section 11.0
C20 - C21	Public Domain Works	Built will comply with this condition through consultation with City of Newcastle throughout the Section 138 Application process for Public Domain Works.

		CTPMSP Section 5.0
Part D – During Construction		
D1	Site Notices	Built has prominently displayed the required signage on the Church Street hoarding. CTPMSP Section 5.5
D2	Operation of Plant and Equipment	CEMP Section 7.0 CNVMSP Section 8.0
D3	Demolition	Demolition works have been undertaken in accordance with all relevant legislative requirements, consent conditions, Management Plans, and Demolition Work Plans. CWMSP Appendix A, B & C
D4 – D7	Construction Hours	These conditions are addressed within the CEMP, and both the CTPMSP and CNVMSP to outline how these specific environmental issues will comply with these conditions. CEMP Section 2.4
D8	Implementation of Management Plans	The CEMP (incorporating the ACHMP) and Sub-Plans outline how Management Plans will be implemented during construction. These requirements are communicated to all personnel in accordance with Condition A25.
D9	Construction Traffic	CTPMSP Section 5.0
D10	Hoarding Requirements	CTPMSP Section 5.0
D11	No Obstruction of Public Way	CTPMSP Section 5.0
D12 - D14	Construction Noise Limits	CNVMSP Section 5.1 & 6.2
D15 - D17	Vibration Criteria	CNVMSP Section 5.2 & 6.3
D18	Tree Protection	Addressed within the CEMP and adopted the recommendations of the Arboricultural Impact Assessment Report.
D19 & D20	Air Quality	CEMP Section 5.2
D21	Erosion and Sediment Control	CEMP Section 5.2.2 & Appendix A2
D22	Imported Soil	CEMP Section 9.0
D23	Disposal of Seepage and Stormwater	CEMP Section 8.0

D24	Unexpected Finds Protocol – Aboriginal Heritage	CEMP Section 10.2
D25	Unexpected Finds Protocol – Historic Heritage	CEMP Section 11.2
D26 - D28	Waste Storage and Processing	CEMP Section 8.0 CWMSP Section 5.0 & 6.0 CWMSP Appendix A & B
D29 - D34	Independent Environmental Audit	Addressed within the CEMP and completed by GHD in accordance with the Independent Audit Program and Post Approval Requirements. CEMP Section 12.2
Advisory Notes		
AN1	All licences, permits, approvals and consents as required by law must be obtained and maintained as required for the development. No condition of this consent removes any obligation to obtain, renew or comply with such licences, permits, approvals and consents.	CEMP Section 4.3.3, 4.6, 9.3 CWMSP Section 6.0 CWMSP Appendix A & B
AN5 - AN6	Utilities and Services	Built will consult with service providers and obtain all relevant approvals prior to commencing works related to their infrastructure. CEMP Section 4.3.3 & 4.5
AN7	Road Occupancy Licence	CTPMSP Section 5.0
AN8	SafeWork Requirements	Addressed in CEMP & Sub-Plans to ensure the safety of work personnel and the public.
AN9	Hoarding Requirements	CTPMSP Section 5.0
A10	Handling of Asbestos	CEMP Section 8.0 & 9.0 CWMSP Section 6.0 CWMSP Appendix A

It must be noted that there are additional International and Australian Standards, Guidelines & Handbooks applicable to specific environmental issues and referred to within the SSD conditions and Head Contract documents (including consultant reports). These are identified and addressed within the attached sub-plans and must be complied with throughout the duration of construction. If additional information is required, please refer to these specific documents for information or seek further advice from Built Management.

4.3.3 Applications & Permits

Built has identified the following applications and permits to enable works and comply with the regulatory framework. Each application and permit will have specific conditions (currently not known) to be satisfied prior to commencing, during, and at the completion their related element of works.

- Construction Certificates (Building Permit) for the construction work issued by Dix Gardner Group (PCA)

- Construction Certificate #1 – Piling, Grouting, and In-Ground Services
- Construction Certificate #2 – Foundations and Level 1 Slabs
- Construction Certificate #3 – Building Works (Internal & External)
- Hoarding Permit
- Road Occupancy Permit - Construction Zone (Full or Partial Closure)
- Road Occupancy Permit – Crane Application for erection of Tower Crane
- Section 138 (Type 1) – Driveway and/or a Road Opening Permit for Hunter Water Upgrade
- Section 138 (Type 2) - New Infrastructure on a Public Road/Footpath Permit for Public Domain Works
- Ausgrid Substation/Kiosk Upgrade and Connection
- Hunter Water Service Connection
- Jemena Gas Service Connection
- National Broadband Network (NBN) Services Connection

4.4 Reporting

Built's reporting requirements for the project are listed in the table below. Note that the other additional reporting is required in accordance with the development consent, however, these have been excluded where the responsibility is not within Built's scope of works (e.g. consultant engagement, etc.). These will be prepared by others directly engaged by the Client or Superintendent.

Key monthly reports include:

- Project Control Group Report
- Waste Management (Resource Recovery)
- Community Liaison Register

Report	Description	Responsible	Frequency	Distribution
Pre-Construction Dilapidation	Dilapidation reports to be prepared for all public infrastructure and adjoining properties	Built	Pre-Construction	CoN NSW Heritage PCA Owners Residents
Staging	Staging Report in accordance with SSD Conditions A9 – A12	dwp	< 1 month prior to commencement of each stage	DPIE Built Dix Gardiner
Demolition	Demolition Work Plans required by AS 2601-2001 must be prepared and submitted in accordance with SSD Conditions C5	Built dwp	Prior to commencement	DPIE Dix Gardiner Dwp
CEMP	A project specific Construction Environmental Management Plan must be prepared in accordance with SSD Conditions C7 and C6 to address the environmental impacts and consent conditions of the development and the EIS.	Built	Prior to commencement	Dwp DPIE Dix Gardner Subcontractors
CEMP Sub-Plans	Project specific CEMP sub-plans must be prepared in accordance with SSD Conditions C10, C11, and C12. - Noise & Vibration Management - Traffic and Pedestrian Management - Construction Waste Management	Built	Prior to commencement	Dwp DPIE Dix Gardner CoN Subcontractors

ACHMP	An Aboriginal Cultural Heritage Management Plan must be prepared to address the requirements of SSD Condition C13	AMAC Archaeology	Prior to commencement of construction (excl. demolition)	Registered Aboriginal Parties DPIE Heritage Council Built Dwp Dix Gardiner
CWTS	Construction Worker Transportation Strategy must be prepared to address parking facilities and other travel arrangements for construction workers in accordance with SSD Condition C14	Built	Prior to commencement	Dix Gardiner Dwp Subcontractors
CLP & Complaints Management	Built to establish a Community Liaison Plan and Register to management complaints and community consultation throughout construction	Built	Prior to commencement Report monthly	Included in PCG Report
ARDEM & Program	Archaeological Research Design and Excavation Methodology & Program must be prepared in accordance with SSD Conditions C17 & C18	AMAC Archaeology	Following completion of demolition works and prior to construction	Heritage NSW DPIE Dwp Built Dix Gardiner Subcontractors
Construction Monitoring	Reports related to the monitoring of issue-specific environmental control measures identified within the SSD-9787 Development Consent. This includes: <ul style="list-style-type: none"> Noise & Vibration Management Traffic & Pedestrian Management Construction Waste Management 	Built	As outlined within each issue-specific environmental management sub-plans listed.	Included in PCG Report
Compliance	Project Compliance Reports in accordance with SSD Conditions C22 – C25 and the Compliance Reporting Post Approval Requirements (DPIE, 2018).	Dwp	- Pre-Construction - During Construction (26-week intervals max.) - Pre-Operation	DPIE Dix Gardiner Built GHD
Non-Compliance	Notification in writing to The Planning Secretary in relation to a non-conformance and in accordance with SSD Conditions A28 – A30 <i>A non-compliance is defined by DPIE as an occurrence, set of circumstances or development that is a breach of the development consent.</i>	Dwp Dix Gardiner Built	As required & as soon as becoming aware	DPIE Dix Gardiner Dwp Built
Incidents (Notifiable to DPIE)	Notification, reporting and response in writing to The Planning Secretary in accordance with SSD Conditions A26 & A27 (including SSD-9787 Appendix 2).	Built Dwp	As required & as soon as becoming aware	DPIE Dix Gardiner Dwp Built

	<p><i>An incident is notifiable to DPIE if it;</i></p> <p><i>(a) involves actual or potential material harm to the health and safety of human beings or to the environment that is not trivial; or</i></p> <p><i>(b) results in actual or potential loss of property damage of an amount, or amounts in aggregate, exceeding \$10,000</i></p>			
Project Control Group	Project Control Group Report providing construction progress information including environmental management and sustainability issues.	Built	Monthly	dwp
Environmental Incidents	All environmental incidents will be reported on Built's internal system, Rapid Incident and included in PCG Reports. <i>Notifiable incidents will be reportable to DPIE</i>	Built	As required	dwp
Independent Environmental Audit	Independent Environmental Audit reports prepared by GHD in accordance with SSD Conditions D29 – D34 and the Independent Audit Post Approval Requirements (DPIE, 2018)	GHD	<p>- Commencement (February 2020)</p> <p>- Construction (August 2020)</p>	DPIE Dwp Built Dix Gardiner
Detailed Site Investigation	Additional site contamination investigations and testing including assessment of both soil and groundwater profile in accordance with SSD Conditions A18 and A19	Douglas Partners	Completion of demolition and prior to construction	GHD DPIE Built Dwp Dix Gardiner
Remediation Action Plan	RAP to be prepared for site remediation and validation work in accordance with SSD Conditions A19 and A20, including approval from the NSW EPA Accredited Site Auditor.	Douglas Partners	Completion of demolition and prior to construction	GHD DPIE Built Dwp Dix Gardiner
Post-Construction Dilapidation	Dilapidation reports and written confirmation from relevant authorities required for adjoining buildings or infrastructure in accordance with SSD Condition E4	Built	Prior to occupation	Dix Gardiner Dwp Authorities CoN
Stormwater Quality Management Plan	OMP is to be prepared in accordance with SSD Condition E21	Built / Consultants	Prior to occupation	Dix Gardiner CoN Dwp
Archaeological Salvage Interim Excavation	Interim report of the salvage excavation undertaken in accordance with SSD Condition E25	AMAC Archaeology	Within one month of completion of salvage work	Heritage Council CoN DPIE Dwp Built
Site Contamination Validation	A Validation Report as required by the RAP must be approved by the NSW EPA Accredited Site Auditor pursuant to SSD	Douglas Partners	Within one month after completion of remediation works	GHD DPIE Dix Gardiner

	Condition A19 and be prepared in accordance with SSD Condition E30			Built dwp
Long Term Environmental Management Plan	A LTEMP as required by the RAP must be approved by the NSW EPA Accredited Site Auditor pursuant to SSD Condition A19 and be prepared in accordance with SSD Condition E32	Douglas Partners	Within one month after completion of remediation works	GHD DPIE Dix Gardiner Built dwp

4.5 Stakeholder Communication and Community Consultation

Three main stakeholder groups, each requiring varying degrees of management processes and strategies, have been identified on the project. These groups and management strategies are identified and outlined in the section below. Further stakeholder details (including contact details) can be found on the Project Contacts List maintained onsite.

4.5.1 Stakeholder Identification

Direct Project Stakeholders

- Nihon University
- Built NSW Pty Ltd
- Azusa Sekkei / dwp Australia Architects
- Project Consultants & Engineers
- Subcontractors
- Suppliers
- Dix Gardner (PCA)

Indirect Project Stakeholders

- NSW Department of Planning, Industry and Environment
- NSW Heritage Office
- The City of Newcastle
- Roads and Maritime Services
- Subsidence Advisory NSW
- GHD (Principle Environmental Consultant/Auditor)
- Service Providers
 - Ausgrid
 - Jemena
 - Hunter Water
 - National Broadband Network

External Stakeholders

- Registered Aboriginal Parties
- NSW Police Force (Newcastle Police Station)
- Hunter New England Health (James Fletcher Hospital)
- The Grand Hotel
- Newcastle Grammar School
- Neighbouring Properties (Owners / Occupiers)
- Public / Pedestrians

4.5.2 Stakeholder Communication Strategies

Built will take care to ensure that the stakeholder management strategy for each stakeholder group identified above, and any newly identified after completion of this document, is implemented throughout the project lifecycle. This strategy will allow Built to effectively communicate with the various stakeholders to best deliver the project to their satisfaction and intent.

Project Stakeholder Communication Strategy

Built will ensure that direct and indirect project stakeholders are regularly informed about construction activities and actively consult and collaborate with these parties through;

- Monthly Project Control Group Report
- Monthly Project Management Report (Internal Built Report)
- Project & Site Coordination Meetings
- Correspondence through email and Aconex

Consultation with these parties will be required for construction applications, permits, and licences throughout the project.

External Stakeholder Communication Strategy

Built understands the high-profile nature of this project and the increased awareness of potential impacts that any construction activity may have on the immediate community and external stakeholders surrounding the construction site. Built has established a Community Liaison Plan in accordance with SSD-9787 conditions of approval.

Stakeholders will be issued regular community notices / updates prior to commencement of the works and throughout the construction lifecycle as required by way of;

- Letter box drops
- Emails (nihon@built.com.au has been setup as the community liaison point of contact)
- Signage and notices
- Door knocking as required
- Phone calls
- Face to face discussions / meetings

4.5.3 Complaints Management

Built has established a community liaison address (nihon@built.com.au) and a register to record the details of Complaints and Queries / Concerns received from external stakeholders. This email address is monitored by key Built personnel; however, the key community liaison contact is Ben Moss (Built Project Manager).

The register is included in Monthly PCG Reports and captures the following information;

- a) Reference Identification
- b) Date & Time Received
- c) Individual/Organisation
- d) Description of Issue
- e) Date & Time Responded
- f) Built Person Responding
- g) Description of Response (including actions / outcomes)
- h) Status of the Issue (Open / Closed)



Construction Environmental Management Plan

All complaints received by Built will be actioned as soon as practical and responded to within one working day by the Project Manager. Any serious incidents or complaints will be forwarded to the Construction Manager for action and response as soon as reasonably practicable.

4.6 Environmental Training and Awareness

To ensure the CEMP (including Sub-Plans) are effectively implemented, all site-personnel will undergo general environmental awareness training, coordinated by the Site Manager and/or HSE Officer, regarding the management plans and their responsibilities under the CEMP.

Records of all training will be maintained onsite and include:

- Who was trained
- When the person was trained
- The name of the trainer
- General description of the training content

4.6.1 Pre-Commencement Assessment and Meeting

All subcontractors must complete a Pre-Commencement Assessment (PCA) online through Built.Safe prior to attending a PCA Meeting onsite.

The online PCA requires subcontractors to complete a questionnaire, provide detailed information, and attach specific documentation regarding HSE for review by Built. Links are also included to the following Built documents:

- HSE Requirements for Subcontractors
- Built Safe Mandatory Standards (Scaffold, Demolition, Asbestos, Formwork Reo Pour, Temporary Works)
- High Risk Work SWMS Template and Fact Sheet.

Once Built has reviewed this information, a PCA Meeting is conducted onsite that involves reviewing the subcontractor's documentation in further detail and ensuring it is compliant with the project specific requirements. PCA Meetings are conducted by the Project Manager, Site Manager, and/or HSE Officer.

4.6.2 Site Induction

All personnel (including sub-contractors) are required to attend a compulsory site induction that includes an environmental component before commencing work onsite. This is done to ensure all personnel involved in the Project are aware of the requirements of the CEMP and to ensure the implementation of environmental management measures. All site induction records are uploaded and electronically recorded on Built.Safe.

Temporary visitors to site undertaking inspections / entering the site (such as regulators) will always be required to undertake a visitor's induction and be accompanied by inducted personnel.

Temporary visitors to site for purposes such as deliveries will always be required to be accompanied by inducted personnel.

The environmental component of the site induction will include (but not limited to) an overview of:

- Built project team / organisational chart
- Site rules including Green Star compliance
- Built's Permit to Work System
- Built HSE Management Plan including the CEMP and Sub-Plans
- Built's HSE policies
- Site hazards including contamination, HAZMAT, and high-risk construction works

- Consultation and site meetings (toolbox meetings, coordination, site address, consultative walks)
- Key project environmental objectives
- Subcontractor environmental responsibilities
 - Compliance with regulatory and project requirements including heritage and archaeological finds
 - Noise and vibration including sensitive receivers
 - Air quality / dust control
 - Water quality
 - Erosion and sediment control
 - Water conservation
 - Flora and vegetation
 - Construction traffic and pedestrian management
 - Unexpected finds procedure for Contamination and Heritage/Archaeological
 - Construction waste management
- Construction Worker Transportation Strategy
- Community liaison and public interaction protocol

4.6.3 Site Meetings and Risk Workshops

Site meetings are completed daily and will be used to raise awareness and educate site personnel on construction and environmental issues.

As required, risk workshops will be held targeting personnel conducting current and/or upcoming works relevant to specific environmental issues and their controls, including (though not limited to):

- Erosion and sediment control
- Aboriginal and non-Aboriginal heritage and archaeology (specifically in relation to the ARDEM by AMAC prior to excavation works)
- Protection of trees
- Noise and vibration control
- Community management
- Emergency and spill response
- Dust control and air quality
- Dewatering
- Waste management including hazardous materials and contamination
- Traffic and pedestrian management including vehicle movements within site
- Requirements of permits

4.7 Emergency and Incident Response

4.7.1 Emergency and Incident Management

An incident is defined under the SSD-9787 Development Consent as:

- An occurrence or set of circumstances that causes, or threatens to cause, material harm and which may or may not be, or cause, a non-compliance.

Material harm is defined under the consent as:

- Is harm that:
 - a) Involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial; or
 - b) Results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment).

In the event of an environmental emergency or incident, the **HSE Plan Appendix 06 Project Emergency Response Plan (PERP)** will be implemented.

The PERP provides references to:

- Types of incidents and required responses
- Criteria for classifying incidents
- Roles and responsibilities
- Processes for responding to and managing emergency situations
- Emergency contacts (also identified within Section 1.2 of the CEMP)
- Emergency site evacuation procedures and plan
- Issue specific incident / emergency checklists

4.7.2 Incident Notification, Reporting and Response

All incident notification, reporting and response will be in accordance with the PERP and recorded within Built's electronic reporting platform Rapid Incident.

All incidents as defined by the SSD-9787 development consent will follow the procedure outlined by the SSD conditions below in addition to the requirements of the PERP:

A26. The Planning Secretary must be notified in writing to compliance@planning.nsw.gov.au immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident.

A27. Subsequent notification must be given, and reports submitted in accordance with the requirements set out in Appendix 2 of the SSD Conditions below.

1. A written incident notification addressing the requirements set out below must be emailed to the Planning Secretary at the following address: compliance@planning.nsw.gov.au within seven days after the

Applicant becomes aware of an incident. Notification is required to be given under this condition even if the Applicant fails to give the notification required under condition A26 or, having given such notification, subsequently forms the view that an incident has not occurred.

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

5.0 Implementation

5.1 Environmental Aspects and Impacts Register

An Environmental Aspects and Impacts Register has been prepared for the project, taking into consideration the information included within the EIS, SSD-9787 Development Consent, detailed design, and construction methodology.

The register lists the key construction activities and identifies the actual and potential environmental impacts associated with each activity. It is used as an environmental risk assessment to design the appropriate environmental management activities, controls and monitoring to prevent or minimise the environmental impacts identified.

The Environmental Aspects and Impacts Register will be reviewed in accordance with SSD Condition A31 and/or when there is a significant change in the stage or scope of the project.

The Environmental Aspects and Impacts Register is attached in **Appendix A1**

5.2 Environmental Issues and Controls

Condition C8 requires the preparation of Sub-Plans for the following specific environmental issues; summaries of each sub-plan are found in the sections identified below:

- Construction Traffic and Pedestrian Management – Section 6.0 of this CEMP
- Construction Noise and Vibration Management – Section 7.0 of this CEMP
- Construction Waste Management – Section 8.0 of this CEMP

Summaries of additional environmental issues requiring the preparation of post-approval plans/reports specific to the project include:

- Remediation Action Plan – Section 9.0 of this CEMP
- Aboriginal Cultural Heritage Management Plan – Section 10.0 of this CEMP
- Archaeological Research Design and Excavation Methodology – Section 11.0 of this CEMP

In addition to the identified site-specific environmental issues addressed in the sub-plans and post-approval reports, Condition C8 requires details to be provided on the below environmental impacts.

Monitoring activities for these controls are found within relevant sub-plans and will be completed by Built site management through regular site inspections and monitoring using Built.Safe software.

5.2.1 Dust & Odour

Built is committed to ensuring that the air quality in and around the site is maintained at acceptable levels throughout the construction period in accordance with Conditions D19, D20, and D26. This will be achieved by adopting the following control measures:

- Exposed surfaces and stockpiles are suppressed by regular watering;
- Covering stockpiles with plastic sheeting or geotextile membranes where reasonable and practicable;
- Subcontractors are to control dust and demonstrate in SWMS;

- Use of hoarding and shade cloth on boundary fencing to contain dust;
- Reduce or cease work activities during high wind periods;
- All trucks entering or leaving the site with loads have their loads covered and secure;
- Vehicle loads will be lightly watered, where applicable, prior to leaving site;
- Trucks associated with the development do not track dirt onto the public road network;
- Public roads used by these trucks are kept clean;
- Where applicable, land stabilisation works are carried out progressively on site to minimise exposed Surfaces;
- All waste generated during construction will be secured and maintained within designated waste storage areas and not leave the site onto neighbouring properties;
- If odorous materials are uncovered, they must be re-covered immediately and Built management notified. Built will notify required parties and commence an investigation. No works to resume until written approval is given;
- Seeking and following advice from Environmental Consultants regarding the management of soils/materials onsite;
- Ensuring all construction plant and equipment is properly maintained and turned off whilst not in use (no long periods of idling);
- Provision of temporary capping over site soils such as staging areas (e.g. road base, hardstands).

Additional information on these controls and monitoring can be found in the RAP, CTPMSP and CWMSP.

5.2.2 Stormwater Control and Discharge

In accordance with Condition D21, Built is committed to ensuring all erosion and sediment control measures are implemented and maintained at or above capacity for the duration of construction works and until such time that all ground disturbed by the works has been stabilised and rehabilitated. All erosion and sediment control techniques will be in accordance with *Managing Urban Stormwater: Soils & Construction (4th Edition, Landcom, 2004)*.

Built will implement the control measures in accordance with the Erosion & Sediment Control Plan (ESCP) (Drawing 8109007-CI-480 Revision B) prepared by Cardno. Measures include the use of surface inlet sediment traps, sediment barriers, silt fences, and temporary construction vehicle exits.

The ESCP is attached in **Appendix A2**.

Due to staging of the works, contours of the site, and existing retaining wall along Church Street, silt fences and sediment traps will not be applicable during the demolition, civil, and early works stages of the project. During these stages, Built will implement and maintain sediment barriers to Church Street kerb inlet pits and temporary construction vehicle exits at each vehicle gate.

Built will continue to monitor and review the effectiveness of these control measures in consultation with Cardno to determine when additional controls are required.

In accordance with Condition D23, Built will ensure adequate provisions are made to collect and discharge stormwater during construction to the satisfaction of the PCA. Built will seek prior written approval from City of Newcastle (Council) if it is required to connect or discharge site stormwater to Council's existing system or street gutters during construction of the building. Such provisions may include temporary works, guttering, downpipes, etc.

5.2.3 Tracking of Sediment and Other Materials onto Roads

To control the tracking of sediment and other materials onto roads by vehicles leaving site, Built will implement the control measures identified within the ESCP and those recommended within the RAP and CTPMSP, including:

- Loads to be covered and lightly wetted
- Vehicles leaving site are to be inspected for cleanliness before being logged out as clean (wheels and chassis) or hosed down into a wash down bay (if required). Built maintains Daily Vehicle Logs onsite.
- Removal of waste materials are to be by licenced contractors holding the appropriate licence, consent or approvals to transport and dispose of waste materials according to the waste classification.

5.2.4 Groundwater Management

To comply with Condition C8(vi), Built will implement the required measures for groundwater management as outlined by the RAP by Douglas Partners.

The RAP highlights that contaminated fill/soil materials identified on-site are unlikely to be having a significant adverse impact on the groundwater quality and down-gradient receiving water quality given the nature of the contaminants, distribution across the site and the depth and nature of the groundwater identified onsite (RAP, pg.10).

Built acknowledges Douglas Partner's advice that a groundwater interference permit through the NOW may need to be obtained prior to construction commencing if groundwater dewatering was proposed as per the requirements of the NSW Aquifer Interference Policy September 2012. Given mine workings requiring grouting have been shown to be dry, groundwater extraction / dewatering is not likely to be required for the development (RAP, pg. 23).

To mitigate risks of groundwater contamination, Built has engaged Douglas Partners for supervision and site contamination testing and validation throughout mines grouting and site remediation works.

If groundwater disposal is required, Douglas Partners will conduct sampling and analysis in accordance with Section 11.1.2 Seepage / Groundwater of the RAP. Once approval is received from DP, disposal will be conducted by a licenced contractor in accordance with statutory and regulatory requirements and classed as Liquid Waste in accordance with NSW EPA.

5.2.5 Obtrusive Effects of External Lighting

Built intends to maintain temporary external/outdoor lighting throughout the duration of the works for the safety and security of site personnel and the public.

Temporary lighting has been installed under the gantry (B Class) hoarding along Church Street to illuminate public access path and additional lighting will be installed at various site locations as construction progresses.

Built will ensure that all temporary lighting is installed and monitored by a licenced electrician and in compliance with **AS 4282-2019 Control of the obtrusive effects of outdoor lighting** to mitigate potential disturbance and distress to neighbouring properties.

5.3 Environmental Control Plans

For on-site reference, the following Environmental Control Plans have been prepared for the project.

Plan	Description	Reference
Site layout plan	Overview of the site layout including access gates, perimeter fencing, hoarding, scaffold, and hoist and crane locations	CTPMSP Appendix E
Noise and vibration sensitive receivers & monitoring locations	Provides detailed information and an overview of the nearby sensitive receivers and noise monitoring locations adopted within the NVA by EMM Consulting.	CNVMSPP Section 2.2
Erosion and Sediment Control Plan	Prepared by Cardno (For Construction) and identifies the types and locations of ESC measures.	CEMP Section 5.2.2 CEMP Appendix A2
Approved Construction Work Zone Plan	Plan showing the approved Construction Work Zone on Church Street	CTPMSP Section 5.3
Hoarding plan	Plan and elevation showing the layout and construction of the A and B Class Hoarding on Church Street	CTPMSP Section 5.5
Swept Path Analysis	Swept path analysis for B-Double (Truck & Dog) vehicles entering and exiting the site.	CTPMSP Section 5.13
Heavy Vehicle Route	Extracted from Google Maps showing heavy vehicle route from the project site to Central Waste Station, Kurri Kurri	CTPMSP Section 5.13
Traffic and pedestrian management control plans	Traffic and pedestrian control plans prepared by Gateshead Traffic Solutions showing signage, swept path, and traffic control personnel	CTPMSP Appendix D
Demolition Works Plan	Architectural Demolition Plan prepared by dwp for the site.	CWMSP Appendix C
Demolition Methodology	Demonstrates the demolition methodology works using 3D modelling with notes.	CWMSP Appendix B
Geotechnical Test Location Plan & Capping Strategy	Plans prepared by Douglas Partners for site contamination investigations and remediation	CWMSP Appendix D
Construction Worker Parking Options	Illustrates the nearby parking facilities available to construction workers for the duration of the project	CTPMSP Appendix F CWTS Section 5.0
Newcastle Transport Network Guide	Illustrates the available public transport options from East Lake Macquarie to the project site	CTPMSP Appendix F CWTS Section 6.0

5.4 Environmental Schedules

The following environmental schedules will be used during the project for environmental management.

Plan	Description	References
Complaints Report	Form record for reporting complaints received on Rapid Incident	CEMP Appendix B1
Community Liaison Register	Community Liaison Register maintained onsite and included in monthly PCG Reports	CEMP Appendix B2 CEMP Section 4.4 CEMP Section 4.5.3
Waste Management Report	Waste Management (Resource Recovery) Report received from Central Waste Station and entered into Built.Safe	CEMP Appendix B3 CEMP Section 4.4 CWMSP Section 4.0 CWMSP Section 8.0
Pre-Commencement Assessment & Meeting Record	Built.Safe form used for subcontractor PCA and PCA Meeting record	CEMP Appendix B4 CEMP Section 4.6.1
Site Induction Record	Form used for subcontractor site induction record that is uploaded to Built.Safe	CEMP Appendix B5 CEMP Section 4.6.2
Site Meeting Record	Built.Safe form used for Site Meeting records	CEMP Appendix B6 CEMP Section 4.6.3
Risk Workshop Record	Built.Safe form used for Risk Workshop meeting records	CEMP Appendix B7 CEMP Section 4.6.3
Environmental Incident Report	Form record for reporting environmental incidents on Rapid Incident	CEMP Appendix B8 CEMP Section 4.7.2
Site Inspection Checklist	Built.Safe form used for recording site inspection activities using HSE-035 Inspection Guide	CEMP Appendix B9 CEMP Section 6.3 CEMP Section 7.3 CEMP Section 8.4 CNVMSP Section 9.4 CTPMSP Section 6.3 CWMSP Section 8.0
Monitoring Checklist	Built.Safe form used for recording monitoring activities using HSE-035 HSE Inspection Guide	CEMP Appendix B10 CEMP Section 6.3 CEMP Section 7.3 CEMP Section 8.4 CNVMSP Section 9.4 CTPMSP Section 6.3 CWMSP Section 8.0
Driver Code of Conduct	DCC used for site induction of drivers/suppliers on the project	CEMP Appendix B11 CEMP Section 6.3 CTPMSP Section 6.3

Daily Truck Log	Log used to record daily truck/vehicle movements entering and exiting the site	CEMP Appendix B12 CEMP Section 6.3 CTPMSP Section 6.3 CWMSP Section 8.0
Daily Traffic Control Inspection Checklist	Daily checklist used by traffic control personnel to ensure traffic and pedestrian management measures are in accordance with CTPMSP.	CEMP Appendix B13 CEMP Section 6.3 CTPMSP Section 6.3
Plant Inspection Checklist	Built.Safe form used for plant induction records prior to commencing works onsite.	CEMP Appendix B14 CEMP Section 6.3 CNVMSP Section 9.4 CTPMSP Section 6.3 CWMSP Section 8.0
Noise Level Spot Check Record	Record used for handheld noise monitor spot checks at sensitive receiver locations or for plant/equipment onsite.	CEMP Appendix B15 CEMP Section 6.3 CEMP Section 9.3 CNVMSP Section 9.4 CTPMSP Section 6.3
Built Safe Mandatory Standard Review Checklist	Built.Safe form used for reviewing BSMS activities and controls onsite.	CEMP Section 12.2
HSE-104 Project HSE Audit Checklist	Checklist used for Project HSE Audits by the Regional HSE Manager.	CEMP Section 12.2
Non-Conformance Report	Form record for reporting Non-Conformances on Rapid Incident	CEMP Appendix B16 CEMP Section 12.3.2
NCR Corrective Actions Report	Built.Safe form used for issuing the NCR and appropriate actions to close out in response.	CEMP Appendix B17 CEMP Section 12.3.3

6.0 Construction Traffic and Pedestrian Management Sub-Plan

6.1 Background

The CTPMSP forms part of the Construction Environmental Management Plan for the project. The CTPMSP has been prepared to address the construction traffic and pedestrian management requirements listed in the Development Consent, reference SSD 9787, issued by the NSW Department of Planning, Industry, and Environment (DPIE).

The purpose of the CTPMSP is to describe how Built proposes to manage potential impacts on traffic and pedestrians during the construction phase of the Project.

The key objective of the CTPMSP is to ensure road safety and network efficiency during construction and minimise potential impacts to general traffic, cyclists, pedestrians and bus services in compliance with the scope permitted by the planning approval. This includes management procedures to appropriately respond to complaints from the community and stakeholders relating to noise and vibration.

To achieve this objective, Built will undertake the following:

- Prepare the CTPMSP in consultation with the City of Newcastle (Council). Evidence of consultation is attached in Appendix A of the CTPMSP.
- Ensure all traffic and pedestrian management measures detailed within this sub-plan are implemented where feasible to control construction vehicle activity in the vicinity of the site and provide an appropriate and convenient environment for pedestrians.
- Detail heavy vehicle routes, access and parking arrangements to be implemented onsite and communicated to sub-contractors and suppliers.
- Develop and implement a Driver Code of Conduct to minimise impacts, conflict, and noise and ensure heavy vehicle routes are communicated to drivers.
- Develop and implement a program to monitor the effectiveness of traffic and pedestrian management measures including periodic review/update of the sub-plan.
- Detail the procedures for notifying residents and the community (including local schools) of any potential disruptions. This will be in accordance with our Community Liaison Plan.
- Implementation of the Construction Worker Transportation Strategy to minimise parking demand within the surrounding area due to the development.

6.2 Summary of Traffic and Pedestrian Management Control Measures

Table 3 below outlines how the traffic and pedestrian management measures detailed in Section 5.0 of the CTPMSP will be implemented throughout the construction of the project where reasonable and feasible in accordance with SSD Conditions and approved permit requirements.

Table 3: Summary of traffic and pedestrian management control measures

Reference	Details of management measure	Implementation		Responsibility
Implemented throughout works		PC ¹	C ²	
TPMM01	Construction works, including deliveries and material movements, will be restricted to the approved construction hours in accordance with Condition D4 to D7	✓	✓	Construction/Project Manager
TPMM02	Ensure permits, where applicable, have been received and are current prior to commencing works.	✓	✓	Project Manager
TPMM03	Ensure construction vehicles (including concrete agitator trucks) do not arrive at the site or surrounding residential precincts outside of the construction hours of work outlined under condition D4.		✓	Site Manager Foreman
TPMM04	Built personnel, subcontractors and suppliers will always be issued a copy of the current CTPMSP and instructed to comply with the requirements	✓	✓	Project Manager HSE Officer
TPMM05	All personnel including drivers will be required to complete a site induction / DCC that includes key information on the CTPMSP	✓	✓	Site Manager Foreman
TPMM06	Driver/operator qualifications and competencies checked, and copies recorded during site inductions	✓	✓	Site Manager Foreman
TPMM07	Implement, where practicable and without compromising the safety of construction staff or members of the public, the use of 'quackers' to ensure noise impacts on surrounding noise sensitive receivers are minimised.	✓	✓	Site Manager Foreman
TPMM08	Information should be provided to neighbours before and during construction through media such as letterbox drops, meetings or individual contact.	✓	✓	Project Manager
TPMM10	Implement complaint response procedures	✓	✓	Project Manager
TPMM11	The use of a site information board at the front of the site, with the name of the organisation responsible for the site and their contact details, hours of operation and regular information updates. This signage should be clearly visible from the outside and include after-hours emergency contact details.		✓	Site Manager
TPMM12	Vehicles to be subject to random inspections to ensure they are maintained and operated in an efficient manner		✓	Foreman HSE Officer

Reference	Details of management measure	Implementation		Responsibility
Implemented throughout works		PC ¹	C ²	
TPMM13	Vehicles checked prior to leaving site to ensure loads are watered, covered and/or secured as required. Vehicles are also inspected to ensure free of debris.		✓	Foreman Traffic Controller
TPMM14	All construction vehicles are to be contained wholly within the site, except if located in an approved on-street work zone. Vehicles must enter the site before stopping.		✓	Foreman Traffic Controller
TPMM15	Where practicable, construction vehicles parked within Work Zone will be directed to turn off engines to prevent excessive noise and air pollution		✓	Foreman Traffic Controller
TPMM16	Protective hoardings, fencing, and barricades used to delineate work areas, protect pedestrians and prevent unauthorised access to the site. These are to be regularly checked and maintained.	✓	✓	Site Manager Foreman
TPMM17	Qualified traffic control personnel will be used to manage vehicle ingress/egress and monitor the work zone	✓	✓	Site Manager Traffic Controller
TPMM18	Appropriate advanced and Other warning signs, Instruction signs and devices in place and positioned correctly	✓	✓	Site Manager Traffic Controller
TPMM19	Width of travel paths always maintained to required clearances and kept clear from materials and debris	✓	✓	Site Manager Foreman
TPMM20	Pathways through construction zones and Church Street gantry are adequately illuminated	✓	✓	Site Manager Foreman
TPMM21	During concrete pours, precautions outlined in the SafeWork Code of Practice for Pumping Concrete are implemented	✓	✓	Site Manager Foreman
TPMM22	Vehicle & personnel gates to be always secured and closed unless under direct supervision by traffic control personnel or Built Site Management		✓	Foreman Traffic Controller
TPMM23	Vehicle & Plant logbooks checked for maintenance and daily pre-start checks	✓	✓	Foreman HSE Officer
TPMM24	All deliveries to be scheduled in advance with Built Site Management	✓		Site Manager Foreman
TPMM25	Schedule deliveries and vehicle movements appropriately to minimise disruptions and congestion, especially during peak periods.	✓		Site Manager Foreman
TPMM26	Regular reinforcement of traffic and pedestrian management measures in toolbox meetings		✓	Site Manager Foreman
TPMM27	Enforcement of internal (5km/h) and external (50km/h or 40km/h) speed limits		✓	Foreman Traffic Controller

Reference	Details of management measure	Implementation		Responsibility
Implemented throughout works		PC ¹	C ²	
TPMM28	Site records such as truck logs and consignment notices to be maintained onsite.		✓	Project Manager Site Manager

(1) *Pre-construction* – note that this may refer to prior to commencement of specific activities rather than prior to the commencement of all construction works.

(2) *Construction*

6.3 Summary of Traffic and Pedestrian Management Monitoring

As defined under Division 9.4 of Part 9 of the EP&A Act; for the purposes of this Division, *monitoring* of a project is the monitoring of the carrying out of the project to provide data on compliance with the approval of the project or on the project's environmental impact.

To comply with Condition A23, regular inspections and monitoring activities will be completed by Built Site Management throughout construction to monitor the effectiveness of the traffic and pedestrian management measures detailed to be implemented in Section 6.2 Table 3.

All inspection and monitoring activities are completed electronically using Built.Safe (Lucidity) software platform and are outlined in Table 4 below and Section 6.3 of the CTPMSP.

Table 4: Summary of traffic and pedestrian management monitoring activities

Activity	Requirements	Frequency, reporting, and responsibility
Supervisor Inspection; of the site or specific work areas/elements to ensure management measures are implemented as required	<ul style="list-style-type: none"> Review of documents prior to inspection (e.g. CTPMSP, Permits, TCP's, SSD Conditions). Visual inspection of the site or specific work area/elements to assess if required measures are implemented and maintained. Visual check of site records, logbooks, licences, etc. Provide a summary of inspection: <ul style="list-style-type: none"> Common checks Activities or items reviewed Observations Compliances / Non-Compliances Report any high potential hazards Attach photographic evidence and copies of any site records viewed Issue any actions arising with appropriate due date for rectification 	<p>Frequency: Minimum weekly and additional as required for high potential areas</p> <p>Reporting: Records are automatically uploaded to Built.Safe and maintained onsite.</p> <p>Responsibility: Project Manager Site Manager Foreman</p>
Monitoring; of construction activities on-site to assess compliance with development approvals, permits, management plans, procedures and measures	<ul style="list-style-type: none"> Identify activity to be monitored (e.g. traffic control, working on and/or near traffic and roads) Review and reference applicable documents: <ul style="list-style-type: none"> SWMS Permit Traffic Management Plans Methodology documents Provide a summary of monitoring: <ul style="list-style-type: none"> Observations Discussions Work practices Compliance / Non-compliance Identify if work was required to be stopped 	<p>Frequency: Minimum monthly per responsible person and as required</p> <p>Reporting: Records are automatically uploaded to Built.Safe and maintained onsite.</p> <p>Responsibility: Project Manager</p>

	<ul style="list-style-type: none"> Report any high potential hazards identified, the responsible trade and/or process, and the situation Log attendance of other personnel involved Attach photographic evidence and copies of any records If applicable, issue actions with appropriate due date for rectification 	<p>Site Manager</p> <p>Foreman</p>
<p>Plant Inspection; To check plant is fit for use prior to being permitted for use on-site</p>	<ul style="list-style-type: none"> Verify and record the following: <ul style="list-style-type: none"> Plant type Make and model Plant identification number Built identification / induction number Contact details for the person responsible for plant Date of the last service and/or inspection Date of the next service and/or inspection Visually inspect and record copies of the following: <ul style="list-style-type: none"> No visible leaks Recorded faults are rectified Operators Manual Last service report Plant risk assessment Operators inspection logbook Assign status of plant <ul style="list-style-type: none"> Registered and on-site Rejected and locked out Off-site If applicable, issue appropriate actions. 	<p>Frequency: As required</p> <p>Reporting: Records maintained onsite</p> <p>Responsibility: Site Manager</p> <p>Foreman</p> <p>HSE Officer</p>
<p>Daily Traffic Control / Footpath Checklist</p>	<p>Traffic Control Supervisor to complete multiple daily checks of traffic control signage to ensure signs are in the correct position, not tampered with and/or obstructed.</p> <p>The checklist includes:</p> <ul style="list-style-type: none"> Date of the week commencing Time signage established each day Subsequent random inspection time (07:00 to 18:00) Daily footpath inspection for trip hazards Name of the qualified traffic controller 	<p>Frequency: Daily checklist</p> <p>Reporting: Submitted to Built weekly and records maintained onsite</p> <p>Responsibility: Foreman Traffic Controller</p>
<p>Truck / Vehicle Log</p>	<p>Log maintained at vehicle gates and completed for each vehicle entry/exit from the site.</p> <p>Log information includes:</p> <ul style="list-style-type: none"> Date Time Registration Company Driver Name Vehicle Type Load Type Load Covered Truck Washed (free of debris) Checked By Comments 	<p>Frequency: Daily log</p> <p>Reporting: Submitted to Built weekly and records maintained onsite.</p> <p>Responsibility: Foreman</p> <p>Traffic Controller</p>

7.0 Construction Noise and Vibration Management Sub-Plan

7.1 Background

The CNVMSP was prepared in consultation with RAPT Consulting and forms part of the Construction Environmental Management Plan. The CNVMSP has been prepared to address the construction noise and vibration requirements listed in the Development Consent, reference SSD 9787, issued by the NSW Department of Planning, Industry, and Environment (DPIE) and the Noise and Vibration Assessment (NVA) dated May 2019 prepared by EMM Consulting.

The purpose of this CNVMSP is to describe how Built proposes to manage potential noise and vibration impacts during construction of the Project.

The key objective of the CNVMSP is to ensure that project noise and vibration impacts on nearby sensitive receivers are minimised and within the scope permitted by the planning approval. This includes management procedures to appropriately respond to complaints from the community and stakeholders relating to noise and vibration.

To achieve this objective, Built will undertake the following:

- Ensure appropriate controls and procedures are implemented during construction activities to avoid or reduce noise and vibration impacts and potential adverse impacts on neighbouring sensitive receivers.
- Ensure reasonable and feasible mitigation measures are implemented with the aim of achieving the requirements in the Development Consent and the management levels detailed in this CNVMSP in accordance with the NSW EPA's *Interim Construction Noise Guideline*.
- Ensure complaints from the community and stakeholders are reduced.

7.2 Summary of Noise and Vibration Management Control Measures

Table 5 below and Section 8.0 of the CNVMSP outline the noise and vibration management measures to be implemented on the project. The control measures include those specified within the NVA by EMM Consulting, including recommendations, set out in AS 2436-2010 "Guide to Noise and Vibration Control on Construction, Demolition and Maintenance Sites". Built will ensure that, where reasonable and feasible, the control measures are implemented throughout the construction of the project in accordance with Conditions D12 to D14 and D15 to D17.

Table 5: Summary of noise and vibration management control measures

Reference	Details of management measure	Implementation		Responsibility
Implemented throughout external works		PC ¹	C ²	
NVMM01	Construction hours will be restricted to the approved construction hours in accordance with Condition D4 to D7	✓	✓	Construction/Project Manager
NVMM02	In accordance with Condition D12, ensure construction vehicles (including concrete		✓	Site Manager

Reference	Details of management measure	Implementation		Responsibility
Implemented throughout external works		PC ¹	C ²	
	agitator trucks) do not arrive at the site or surrounding residential precincts outside of the construction hours of work outlined under Condition D4.			
NVMM03	Implement, where practicable and without compromising the safety of construction staff or members of the public, the use of 'quackers' to ensure noise impacts on surrounding noise sensitive receivers are minimised in accordance with Condition D14	✓	✓	Site Manager
NVMM04	All construction plant and equipment used on site must be maintained in a proper and efficient condition and operated in a proper and efficient manner in accordance with Condition D2	✓	✓	Site Manager Foreman
NVMM05	Built personnel and subcontractors will always be issued a copy of the current CNVMP and instructed to comply.	✓	✓	Construction/Project Manager
NVMM06	Regular review of work methodologies to identify potential noise and vibration effects and minimise where possible.	✓	✓	Construction/Project Manager Site Manager
NVMM07	Provide regular information to neighbours before and during construction through media such as letterbox drops, meetings or individual contact.	✓	✓	Project Manager Community Liaison Officers
NVMM08	The induction of site staff will include a reference to potential noise impacts and the identification of noise-sensitive land uses.	✓		Construction/Project Manager
NVMM09	Implement a complaint management system	✓	✓	Construction/Project Manager
NVMM10	The use of a site information board at the front of the site, with the name of the organisation responsible for the site and their contact details, hours of operation and regular information updates. This signage will be clearly visible from the outside and include after-hours emergency contact details.		✓	Site Manager
NVMM11	Erection of 2.4m high plywood hoarding to Church Street boundary to minimise noise to receivers	✓		Site Manager

Reference	Details of management measure	Implementation		Responsibility
Implemented throughout external works		PC ¹	C ²	
NVMM12	The use of existing structures, temporary site buildings and materials stockpiles as noise barriers, where practicable.		✓	Foreman
NVMM13	Where practicable, place as much distance as possible between noisy plant or equipment and residences and other sensitive land uses.		✓	Site Manager Foreman
NVMM14	Minimise the number of plant items operating concurrently when near surrounding receivers.		✓	Site Manager Foreman
NVMM15	Minimise the need for vehicle reversing for example, by arranging for one-way site traffic routes where practicable	✓	✓	Project Manager Site Manager
NVMM16	Noise and vibration monitoring will be adopted as a management strategy throughout the construction works. The purpose of monitoring would be to validate background noise levels, the construction noise predictions and to confirm that the noise and vibration levels from individual items of equipment are not excessive. Ideally, monitoring will be undertaken at the commencement of works and during (or soon after) any significant change in activities		✓	Project Manager HSE Officer
NVMM17	regular reinforcement (such as at toolbox talks) of the need to minimise noise and vibration		✓	Site Manager Foreman
NVMM18	regular identification of noisy activities and adoption of improvement techniques as practicable and reasonable	✓	✓	Project Manager Site Manager
NVMM19	avoiding the use of shouting, portable radios, public address systems or other methods of site communication that may unnecessarily impact upon nearby residents		✓	Foreman Operators / Workers
NVMM20	developing routes for the delivery of materials and parking of vehicles to minimise noise	✓	✓	Construction/Project Manager
NVMM21	where possible, avoiding the use of equipment that generates impulsive noise	✓	✓	Project Manager Site Manager
NVMM22	minimising the movement of materials and plant and unnecessary metal-on-metal contact		✓	Foreman

Reference	Details of management measure	Implementation		Responsibility
Implemented throughout external works		PC ¹	C ²	
NVMM23	minimising truck movements where practicable		✓	Site Manager Foreman
NVMM24	scheduling respite periods for intensive works as determined through consultation with potentially affected neighbours (e.g. a daily respite period for a minimum of one hour at midday).		✓	Project Manager
NVMM25	choosing quieter plant and equipment based on the optimal power and size to most efficiently perform the required tasks	✓	✓	Project Manager Site Manager
NVMM26	using temporary noise barriers (in the form of plywood hoarding or similar) to shield intensive construction noise activities from residences where practicable and reasonable	✓	✓	Site Manager Foreman
NVMM27	operating plant and equipment in the quietest and most efficient manner as is practicable and reasonable		✓	Foreman Operators
NVMM28	regularly inspecting and maintaining plant and equipment to minimise noise and vibration level increases, to ensure that all noise and vibration reduction devices are operating effectively.		✓	Foreman HSE Officer
NVMM29	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	✓	✓	Project Manager Site Manager
NVMM30	scheduling work to coincide with non-sensitive periods where it is reasonable and practicable to do so	✓	✓	Project Manager Site Manager
NVMM31	scheduling noisy activities to coincide with high levels of neighbourhood noise so that noise from the activities is partially masked and not as intrusive	✓	✓	Project Manager Site Manager
NVMM32	planning deliveries and access to the site to occur quietly and efficiently and organising parking only within designated areas located away from the sensitive receivers		✓	Site Manager Foreman
NVMM33	optimising the number of deliveries to the site by amalgamating loads where possible and scheduling arrivals within designated hours		✓	Site Manager Foreman

Reference	Details of management measure	Implementation		Responsibility
Implemented throughout external works		PC ¹	C ²	
NVMM34	designating, designing and maintaining access routes to the site to minimise impacts	✓	✓	Project Manager Site Manager
NVMM35	include contract conditions that include penalties for non-compliance with reasonable instructions by the principal to minimise noise or arrange suitable scheduling	✓		Construction / Project Manager
NVMM36	high vibration generating activities should only be carried out in continuous blocks, with appropriate respite periods as determined through consultation with potentially affected neighbours.	✓	✓	Project Manager Site Manager
NVMM37	Plant used intermittently will be shut down or throttled down to a minimum in between use.		✓	Foreman Operators
NVMM38	Vibratory compactors must not be used closer than 30 metres from residential buildings unless vibration monitoring confirms compliance with the vibration criteria specified in Section 5.2 (as per Condition D16)	✓	✓	Project Manager Site Manager
NVMM39	Limitations to vibration intensive plant identified in Section 6.3 are to be considered and avoided where is practicable and reasonable when planning works regarding structural damage and human comfort.	✓	✓	Project Manager Site Manager
NVMM40	Stopping works if reasonable to do so when noise and/or vibration levels exceed limits and re-assess to identify additional mitigation measures		✓	Project Manager Site Manager

(1) Pre-construction – note that this may refer to prior to commencement of specific activities rather than prior to the commencement of all construction works.

(2) Construction

7.3 Summary of Noise and Vibration Management Monitoring

To maximise the effectiveness of management strategies to minimise construction noise and vibration emissions, a monitoring program has been developed to guide, manage, quantify and control emissions from construction activities.

Where monitoring results indicate exceedances of the relevant noise and vibration goals, additional practicable and reasonable mitigation measures and controls would be considered to minimise impacts to nearby sensitive receivers.

The objectives of the monitoring program are to:

- assess construction noise and vibration levels against relevant goals, with consideration given to non-site related ambient and background noise and vibration at the time of measurements;
- identify potential noise and vibratory sources and their relative contribution to impacts from construction activity;
- specify appropriate intervals for monitoring to evaluate, assess and report the relative contribution due to construction activity;
- outline the methodologies to be adopted for monitoring construction noise and vibration, including justification for monitoring intervals or triggers, weather conditions, monitoring location selection; and
- timing; and
- incorporate noise and vibration management and mitigation strategies outlined in this plan.

Regular inspections will be completed by the Built project team or a suitably qualified representative throughout construction and noise and vibration monitoring will also occur routinely during the works as detailed in Table 6 below and Section 9.3 of the CNVMSP.

Table 6: Summary of noise and vibration management monitoring activities

Activity	Monitoring Requirements	Frequency, reporting, and responsibility
Noise monitoring		
Operator attended noise survey	Noise monitoring will be carried out at the complainant and/or nearest sensitive receiver/s relevant to the construction activities at the time of monitoring.	Frequency: Minimum three (3) monthly basis for attended monitoring or as required by significant activity and/or a new stage of works.
Where a complaint is received, and monitoring is considered an appropriate response to determine if noise levels exceed predicted construction noise levels documented in this CNVSMP	<p>The testing method includes:</p> <ul style="list-style-type: none"> • Sound level meter configured for “Fast” time weighting and “A” frequency weighting. • Test environment free from reflecting objects where possible. Where noise monitoring is conducted within 3.5 metres of large walls or a building facade, then a reflection correction of up to -2.5 dB(A) will be applied to remove increased noise due to sound reflections. 	<p>As required for complaints where a spot check confirms exceedance.</p> <p>Reporting: Reports will be submitted to Built and contain the results of monitoring and how</p>

Activity	Monitoring Requirements	Frequency, reporting, and responsibility
	<ul style="list-style-type: none"> Tests will not be carried out during rain or when wind speed exceeds 5m/s. Conditions such as wind velocity and direction, temperature, relative humidity, and cloud cover will be recorded from the nearest Bureau of Meteorology station or on-site weather station/observations. The monitoring period must be sufficient such that measured noise levels are representative of noise over a 15-minute period. measurements in one-third octave bands from 10 Hz to 8 kHz inclusive (or a broader range of bands) for the 15-minute interval At a minimum L_{Aeq}, L_{Amin}, L_{A90}, L_{A10}, L_{A1}, and L_{Amax} levels will be measured and reported. <p>The observations of the person undertaking the measurements will be reported including the audibility of construction noise, other noise in the environment and any discernible construction activities contributing to the noise at the receiver.</p>	<p>exceedances were managed. A site layout outlining locations of equipment and monitoring locations are also to be included. Records will be maintained on-site and made available to key stakeholders upon request.</p> <p>Responsibility: Monitoring to be undertaken by a suitably qualified acoustic specialist or suitably qualified and experienced environmental officer.</p>
Vibration monitoring		
Pre-Construction Dilapidation Inspections	<p>In accordance with Condition B4:</p> <ul style="list-style-type: none"> a dilapidation inspection was completed to assess the condition of existing public infrastructure in the vicinity of the project (including roads, gutters, and footpaths). <p>In accordance with Condition B5:</p> <ul style="list-style-type: none"> dilapidation inspections were completed for adjoining private properties, heritage items and council assets likely to be affected by the development. <p>Built issued an invitation for a dilapidation inspection to all properties likely to be affected by the development. Inspections were completed on those properties where the owner/occupier accepted the invitation.</p> <p>Dilapidation inspections assessed the existing condition of the properties for reference in the event of any damage potentially occurring due to construction activities.</p> <p>Inspection requirements include:</p> <ul style="list-style-type: none"> - Unrestricted access to the property 	<p>Frequency: Prior to the commencement of construction activities on site.</p> <p>Reporting: Dilapidation reports containing general comments on key findings and a photographic summary were prepared and submitted to property owners, City of Newcastle, NSW Heritage Division and the Certifying Authority.</p> <p>Reports maintained by Built for future reference in the instance of receiving complaints.</p> <p>Responsibility: Qualified Structural/Civil Engineer & Built</p>

Activity	Monitoring Requirements	Frequency, reporting, and responsibility
	<ul style="list-style-type: none"> - Inspection of all internal and external areas (apart from those covered by furniture, wall paintings/ornaments and the like) - Photographic records of areas inspected and any visible existing damage (cracks and the like). - Notes of the existing condition of areas inspected and any visible damage identified. 	
Vibration monitoring; prior to or at the commencement of significant vibration causing activities/stage of works/works occurring within safe working distances to buildings.	<p>Continuous vibration monitoring will be conducted on relevant activities as follows:</p> <ul style="list-style-type: none"> • Geophone installed at the ground adjacent to building foundations or equivalent (or nearer) location if access not provided to the outside of the building. • Monitor to continuously record PPV and/or VDV vibration levels generated by the activity. • Measured levels to be compared to human disturbance vibration goals and/or building damage limits as appropriate. • An audio and/or visual warning alarm system will be implemented with the monitoring system • If the alarm is triggered, work will STOP and necessary measures such as modified work practices will be implemented. • Note that if the frequency of the vibration event is such that 75% of the DIN 4150-3 limit was not exceeded, then works will proceed with caution, and the alert level adjusted as appropriate. 	<p>Frequency: As required throughout each stage of construction where significant vibration is expected</p> <p>Reporting: A report detailing measurement results and any vibration management measures to be provided to Built. Records will be maintained onsite.</p> <p>Responsibility: Vibration monitoring will be undertaken by a suitably qualified specialist.</p>
Continuous vibration monitoring; if trial/initial monitoring results determine exceedance of levels for damage or annoyance.	<p>Where testing for vibration caused by plant & equipment, the plant/equipment will be tested in the settings in which it is expected to operate.</p>	<p>Frequency: As required throughout construction where trial/initial tests found that vibration levels exceeded the criteria in Section 5.2</p> <p>Reporting: Report detailing measurement results and any vibration management measures to be provided to Built. Records will be maintained onsite.</p> <p>Responsibility: Vibration monitoring will be undertaken by a suitably qualified specialist.</p>

Activity	Monitoring Requirements	Frequency, reporting, and responsibility
Vibration monitoring; in response to a complaint	<p>Attended vibration monitoring will be conducted on the relevant activities as follows:</p> <ul style="list-style-type: none"> Geophone installed at the ground adjacent to building foundations or equivalent (or nearer) location if access not provided to the outside of the building. Monitor to continuously record PPV and/or VDV vibration levels generated by the activity. Measured levels to be compared to human disturbance vibration goals and/or building damage limits as appropriate. <p>If necessary, following the vibration measurements:</p> <ul style="list-style-type: none"> Appropriate vibration management measures will be implemented. <p>Continuous vibration monitoring will be considered if this is considered of benefit to address the complaint.</p>	<p>Frequency: As required for complaints where this is considered an appropriate response.</p> <p>Reporting: Report detailing measurement results and any corrective actions to be provided to the complainant and relevant stakeholders.</p> <p>Responsibility: Vibration monitoring will be undertaken by a suitably qualified specialist.</p>
Structural Inspection / Assessment; in response to a complaint regarding damage potentially caused by construction damage	<p>In the event of being notified and/or receiving a complaint of property damage by a stakeholder who received a Pre-Construction Dilapidation Inspection, Built will arrange for an inspection at the location as soon as reasonably practicable by all parties (complainant, Built, Engineer).</p> <p>The inspection will assess the alleged damage against the pre-construction dilapidation report.</p> <p>A report will be prepared to note the findings of the inspection and issued to the complainant.</p> <p>In the instance that the property owner did not accept the offer for a pre-construction dilapidation inspection, Built will review the details of the complaint and conduct a preliminary investigation. If deemed appropriate, Built will arrange a detailed inspection of the building.</p>	<p>Frequency: As required/seen as an appropriate response to a complaint</p> <p>Reporting: Dilapidation reports containing general comments on key findings and a photographic summary were prepared and submitted to property owners.</p> <p>Reports maintained by Built for future reference in the instance of receiving complaints.</p> <p>Responsibility: Qualified Structural/Civil Engineer & Built</p>
Post-Construction Dilapidation Report	<p>In accordance with Condition E4:</p> <ul style="list-style-type: none"> At the completion of the development, a dilapidation inspection of adjoining buildings and infrastructure will be completed to assess against 	<p>Frequency: At the completion of construction works / the development</p>

Activity	Monitoring Requirements	Frequency, reporting, and responsibility
	the pre-construction dilapidation reports to ascertain whether any structural damage occurred as a result of construction works.	Reporting: To be submitted the Certifier and City of Newcastle Responsibility: Qualified Structural/Civil Engineer & Built

8.0 Construction Waste Management Sub-Plan

8.1 Background

The Construction Waste Management Sub Plan (CWMSWP) forms part of Built's Health, Safety & Environmental (HSE) Management Plan and project-specific Construction Environmental Management Plan (CEMP). The CWMSWP has been prepared by Built to address the requirements of the SSD-9787 development consent and project environmental studies relevant to waste management, including hazardous materials.

The objectives of the Construction Waste Management Sub Plan are to:

- Encourage minimisation of waste generated by the project and maximisation of resource recovery through targeting over 90% waste diversion from landfill;
- Minimise impacts from the site on the environment and on public health and safety throughout the development;
- Maximise the protection of workers and the public, especially during the removal of hazardous materials and site remediation works;
- Establish best practice waste management strategies and procedures throughout demolition and construction of the development. This encompasses on-site management and offsite disposal including transport and waste tracking/traceability;
- Render the site safe for the proposed land use and substantially reduce potential exposure pathways to contaminants.

8.2 Waste Classification and Validation

8.2.1 Classification of Waste for Removal Off-Site

In accordance with Condition D27 and the requirements of the RAP, all waste generated during construction must be assessed, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014).

Any excess contaminated materials which cannot be accommodated beneath capping must be disposed of to an appropriately licensed landfill or re-used on another site under a general or specific resource recovery exemption (where possible).

Previous investigations (DP, 2020a) indicated the following:

- The majority of fill materials tested are classified as 'General Solid Waste (non-putrescible)' based on total and leachable (TCLP) concentrations. It is noted asbestos impacted soils would be classified as 'Special Waste (asbestos waste)'. Bonded asbestos materials were observed at the surface and within filling across the site. Building demolition waste was also present within filling across the site. As a result, the fill materials across the site are classified "asbestos waste" in the absence of further detailed assessment;
- Options for re-use of site materials under a general resource recover exemption are limited due to the presence of elevated contaminant concentrations and presence of asbestos within filling. Targeted removal of natural soils not significantly impacted by contamination as VENM or ENM could be considered subject to validation and additional targeted investigation and testing with reference to NSW EPA (2014a and 2014b). Ideally this should be conducted prior to construction. Validation of stripped surfaces (if

conducted) would require an inspection, and sampling / testing for contaminants of concern on minimum 10 m x 10 m grid.

Classification of materials for off-site disposal will include inspection, sampling and analysis. The frequency of testing required for classification should be confirmed by a suitably qualified environmental consultant.

Analysis for waste classification must comprise the following target contaminants, based on previous work at the site:

- Total Recoverable hydrocarbons (TRH);
- Benzene, Toluene, Ethylbenzene and Xylene (BTEX);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Heavy Metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn);
- Asbestos Identification testing.

Additional analytes (i.e. foreign materials, pH, EC, etc) may be required if assessment against a general RRO is proposed.

The analytical programme will be reviewed following inspection and sampling to confirm analytes for testing. Leachability (TCLP) analysis may be required if total contaminant levels are found to exceed 'General Solid Waste' criteria.

Any materials which require off-site disposal must be classified in accordance with NSW EPA (2014a). The criteria for disposal in accordance with NSW EPA (2014a) are presented in Tables 3 and 4 below. In addition, asbestos contaminated soil/fill/sediment will require disposal to a licensed landfill as 'special waste' in accordance with NSW EPA (2014a).

Truck dispatch shall be logged and recorded by the contractor for each load leaving the site. A record of the truck dispatch will be provided to DP by the subcontractor or Built. The waste tracking procedure will include the submission of EPA Consignment Notices, weighbridge receipts, and truck logs.

8.2.2 Validation of Waste to Remain On-Site

All waste materials proposed to remain on-site for re-use or to be capped must be validated by Douglas Partners or an environmental consultant.

Where required, analysis for the validation of stripped/excavated contaminated soils within landscape areas, base of bulk excavations or the stormwater easement must comprise the following:

- Total Recoverable hydrocarbons (TRH);
- Benzene, Toluene, Ethylbenzene and Xylene (BTEX);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Heavy Metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn);
- Asbestos (WA Department of Health – 500 mL).

The analytical programme will be reviewed following excavation, segregation and sampling to confirm analytes for testing. Leachability (TCLP) analysis may be required for stockpile samples if total contaminant levels are found to exceed 'General Solid Waste' Criteria.

A validation report will be prepared by the environmental consultant with reference to the NSW EPA Contaminated Sites Guidelines for Consultants Reporting on Contaminated Sites (NSW EPA, 2011), NSW EPA Guidelines for the NSW Site Auditor Scheme (NSW EPA, 2017) and other appropriate guidance documentation. An important part of site validation (for on-site capping) will be the inspection to confirm that appropriate capping has been achieved in accordance with the RAP.

The report shall be submitted to Built for submission to the Site Auditor and Council at the completion of the remediation works program. The validation report shall confirm that the site has been remediated to a suitable standard for the proposed university development. It is noted that due to the staged construction program proposed, interim validation reports may be required for each stage.

The validation report should include details of the total volume of contaminated materials removed from site (if any), indicate the final disposal destination of the materials removed from site (if any), the final location and depth of materials retained on site, present details of the capping procedure and final capping depths, present detailed analytical results, and provide comment on the suitability of the site for the proposed university development.

Upon the completion of remediation and validation works and construction, a SMP will be drafted for long-term management of capped materials on-site (i.e. measures to reduce the likelihood of future disturbance, and procedures for handling/disposal in the event that identified contaminated materials are disturbed). Again, due to the staged construction program proposed, interim SMP reports may be required for each stage.

8.3 Summary of Construction Waste Management Control Measures

Table 7 below outlines the construction waste management control measures to be implemented throughout the development to ensure compliance with the regulatory framework and is located in Section 7.0 of the CWMSMP.

Table 7: Summary of construction waste management control measures

Reference	Details of management measure	Implementation		Responsibility
Implemented throughout works		PC ¹	C ²	
WMM01	Prepare and implement the required CEMP and Sub-Plans prior to works commencing in accordance with the EIS, RAP, and Conditions C7, C8, C11	✓	✓	Project Manager
WMM02	Additional site investigations of both the soil and groundwater profile to be completed and remediation works to be carried out in accordance with the RAP by Douglas Partners pursuant to Conditions A18 – A20	✓	✓	Douglas Partners Project Manager Site Manager Sub-contractors
WMM03	Built personnel, subcontractors and suppliers will always be issued a copy of the current CEMP and Sub-Plans and instructed to comply with the requirements.	✓	✓	Project Manager HSE Officer Sub-contractors
WMM04	Ensure permits, where applicable, have been received and are current prior to commencing works. Includes consultation with SafeWork NSW, EPA, and other Authorities required for demolition, construction and management of	✓	✓	Project Manager Site Manager Sub-contractors

Reference	Details of management measure	Implementation		Responsibility
Implemented throughout works		PC ¹	C ²	
	waste on and off-site in accordance with Condition A8			
WMM05	All personnel including drivers will be required to complete a site induction / DCC that includes key information on the CWMS & CTPMS. Inductions require copies to be taken of appropriate licences and qualifications.	✓	✓	Site Manager HSE Officer
WMM06	All waste must be classified and validated by an Occupational Hygienist and Geotechnical Engineer prior to removal from site and disposed of in accordance with NSW EPA Guidelines	✓	✓	Douglas Partners Site Manager Sub-contractors
WMM07	Exposed surfaces and stockpiles materials must be suppressed by watering. Contaminated material stockpiles must be demarcated and lightly wetted or covered with geotextile or similar cover		✓	Foremen Sub-contractors
WMM08	Ensure construction vehicles (including concrete agitator trucks) do not arrive at the site or surrounding residential precincts outside of the construction hours of work outlined under condition D4.		✓	Site Manager Foreman
WMM09	Plant & equipment used for demolition, site remediation and waste management shall be maintained in a proper and efficient condition in accordance with Condition D2. Plant and equipment are inspected upon delivery and throughout the duration onsite.	✓	✓	Foremen HSE Officer Sub-contractors
WMM10	Regular inspections and monitoring to ensure Demolition (including removal of hazardous materials) is completed in accordance with the Methodology and Plans required under Conditions C5 & D3.		✓	Project Manager Site Manager Foremen HSE Officer
WMM11	All works and vehicle deliveries to and from the site will be restricted to the approved hours in accordance with Condition D4 to D7	✓	✓	Site Manager Foremen Sub-contractor
WMM12	Instruction will be given to personnel and regular inspections completed to ensure the Public Way is not obstructed at any time in accordance with D11	✓	✓	Foremen HSE Officer
WMM13	Regular inspections of vehicles entering or leaving site to ensure loads are secured and controlled (covered and/or wetted) and wheels/chassis are clean of soils and material.		✓	Foremen Traffic Controllers

Reference	Details of management measure	Implementation		Responsibility
Implemented throughout works		PC ¹	C ²	
WMM14	Stormwater management and control will be implemented and maintained in accordance with the ESCP and regularly inspected. No discharge of stormwater is permitted without consultation and approval from City of Newcastle.	✓	✓	Site Manager Foremen HSE Officer
WMM15	Secure and designated waste storage areas / skip bins will be implemented onsite. These will be regularly inspected and collected to minimise waste build up.		✓	Site Manager Foremen
WMM16	Concrete waste and rinse water will be collected onsite using dedicated washout trays and disposed offsite in accordance with regulatory requirements.		✓	Site Manager Foremen Sub-contractors
WMM17	Housekeeping & site cleanliness will be regularly reinforced onsite through toolbox talks.	✓	✓	Foremen HSE Officer
WMM18	Built will implement the community liaison plan and complaints response procedure for anything related to this sub-plan.	✓	✓	Project Manager
WMM19	Site records including truck logs, waste tracking and consignment notices maintained onsite.		✓	Foremen Sub-contractors
WMM20	Regular monitoring / audits of site records to ensure waste traceability and verification.		✓	Project Manager Site Manager
WMM21	Air monitoring to be implemented onsite during removal of ACM. Monitoring records to be maintained onsite.	✓	✓	Site Manager Sub-contractors
WMM22	Areas subject to removal of hazardous materials are to be contained and restricted to qualified / licenced personnel only.	✓	✓	Foremen HSE Officer
WMM23	All imported materials or materials to remain onsite must be validated by Douglas Partners prior to delivery to or re-use onsite	✓	✓	Site Manager Foremen
WMM24	Regular inspections of site remediation and capping works by Douglas Partners as part of validation for materials re-used (capped) onsite		✓	Site Manager Douglas Partners

(1) Pre-construction – note that this may refer to prior to commencement of specific activities rather than prior to the commencement of all construction works.

(2) Construction

8.4 Summary of Construction Waste Management Monitoring

Table 8 below outlines the construction waste management monitoring activities to be implemented throughout construction to provide the required data on compliance with the regulatory framework related to waste management, demolition and site remediation. This can be located in Section 8.0 of the CWMSP.

Table 8: Summary of construction waste management monitoring

Activity	Requirements	Frequency, reporting, and responsibility
Supervisor Inspection; of the site or specific work areas/elements to ensure management measures are implemented as required	<ul style="list-style-type: none"> Review of documents prior to inspection (e.g. management plans, Permits, SSD Conditions). Visual inspection of the site or specific work area/elements to assess if required measures are implemented and maintained. Visual inspection of site bins, materials stockpiles, and/or designated waste areas are secure and in accordance with requirements. Visual check of site records, logbooks, licences, etc. Provide a summary of inspection: <ul style="list-style-type: none"> Common checks Activities or items reviewed Observations Compliances / Non-Compliances Report any high potential hazards Attach photographic evidence and copies of any site records viewed Issue any actions arising with appropriate due date for rectification 	<p>Frequency: Weekly</p> <p>Reporting: Records are automatically uploaded to Built.Safe and maintained onsite.</p> <p>Responsibility: Project Manager Site Manager Foreman</p>
Monitoring; of construction activities on-site to assess compliance with development approvals, permits, management plans, procedures and measures	<ul style="list-style-type: none"> Identify activity to be monitored (e.g. site remediation, demolition works) Review and reference applicable documents: <ul style="list-style-type: none"> SWMS Permits Site records Management plans Methodology documents Provide a summary of monitoring: <ul style="list-style-type: none"> Observations Discussions Work practices Compliance / Non-compliance Identify if work was required to be stopped Report any high potential hazards identified, the responsible trade and/or process, and the situation Log attendance of other personnel involved Attach photographic evidence and copies of any records If applicable, issue actions with appropriate due date for rectification 	<p>Frequency: Minimum monthly per responsible person and as required</p> <p>Reporting: Records are automatically uploaded to Built.Safe and maintained onsite.</p> <p>Responsibility: Project Manager Site Manager Foreman</p>
Plant Inspection; To check plant is fit for use prior to being	<ul style="list-style-type: none"> Verify and record the following: <ul style="list-style-type: none"> Plant type Make and model Plant identification number 	<p>Frequency: As required</p> <p>Reporting:</p>

permitted for use on-site	<ul style="list-style-type: none"> – Built identification / induction number – Contact details for the person responsible for plant – Date of the last service and/or inspection – Date of the next service and/or inspection • Visually inspect and record copies of the following: <ul style="list-style-type: none"> – No visible leaks – Recorded faults are rectified – Operators Manual – Last service report – Plant risk assessment – Operators inspection logbook • Assign status of plant <ul style="list-style-type: none"> – Registered and on-site – Rejected and locked out – Off-site • If applicable, issue appropriate actions. 	<p>Records are automatically uploaded to Built.Safe and maintained onsite</p> <p>Responsibility: Site Manager Foreman HSE Officer</p>
Truck / Vehicle Logs	<p>Log maintained at vehicle gates and completed for each vehicle entry/exit from the site.</p> <p>Log information includes:</p> <ul style="list-style-type: none"> – Date – Time – Registration – Company – Driver Name – Vehicle Type – Load Type – Load Covered – Truck Washed (free of debris) – Checked By – Comments 	<p>Frequency: Daily log</p> <p>Reporting: Submitted to Built weekly and records maintained onsite.</p> <p>Responsibility: Foreman Traffic Controller</p>
<p>Monthly Reporting</p> <p>To ensure accurate and detailed waste management records are being maintained for compliance and validation purposes</p>	<ul style="list-style-type: none"> • Site Records <ol style="list-style-type: none"> a) Subcontractors to submit site records to Built b) Collate waste management site records c) Consultant Inspection Reports received and actions (if any) closed out • Monthly Status Reports <ol style="list-style-type: none"> a) Subcontractors to submit required monthly waste reports to Built (if applicable) b) Central Waste Station to submit monthly Resource Recovery report to Built. 	<p>Frequency: Monthly</p> <p>Reporting: Site records maintained onsite and submitted to Environmental Consultant for validation. Monthly Waste Reports are attached to the monthly Project Control Group Report and uploaded to Built.Safe</p> <p>Responsibility: Project Manager Foremen</p>
Site Validation Inspections	<ul style="list-style-type: none"> • Site inspection by Douglas Partners to inspect the progress of site remediation works involving the on-site management (capping) of contaminated soils. • Any actions raised to be closed out by Built and the relevant subcontractor. 	<p>Frequency: As required by DP</p> <p>Reporting: Site records maintained onsite by Built and submitted to Environmental Consultant for validation.</p>

		<p>Site inspection report to be prepared by DP and submitted to Built.</p> <p>Responsibility: Project Manager Foremen Douglas Partners</p>
Site Validation Report	<p>Site Validation Report as required by the Remediation Action Plan approved by a NSW EPA Accredited Site Auditor pursuant to Condition A19. The Validation Report must be prepared in accordance with Condition A30.</p>	<p>Frequency: Submitted within one month after completion of remediation works.</p> <p>Reporting: Be prepared in accordance with the RAP approved by a NSW EPA Accredited Site Auditor pursuant to Clause A19</p> <p>Responsibility: Douglas Partners</p>

9.0 Remediation Action Plan

9.1 Background

In accordance with SSD Conditions A18 to A19, Built engaged Douglas Partners Geotechnical Engineers (DP) to conduct additional investigations for site contamination and prepare a Remediation Action Plan (RAP) for approval by the NSW EPA Accredited Site Auditor prior to the commencement of remediation works.

The RAP has been developed based on available standards and guidelines prepared by the relevant authorities, and the results of the detailed site investigation conducted by DP for the proposed development.

This RAP supersedes the Conceptual Remediation Action Plan (cRAP) prepared by Cardno (NSW/ACT) Pty Ltd (dated 2019) for the development which was based on preliminary investigation findings conducted previously by others. Pertinent information from the cRAP has been referred to in the RAP where applicable.

The previous investigation conducted by DP (dated 2020) which included a review of previous investigations on the site by DP and others, identified bonded asbestos containing materials (ACM) within filling across the site above the adopted site assessment criteria which require remediation to render the site suitable for the proposed development.

While PAH, heavy metal and TRH impacts were identified on site exceeding the adopted Tier 1 health and conservative ecological investigation / screening levels, statistical analysis and consideration of the ecological setting and proposed development indicated that remediation for these contaminants was not warranted.

This RAP has been prepared to describe the remediation strategy via on-site management of bonded asbestos impacted filling beneath existing and proposed concrete pavements, buildings and associated landscape areas (i.e. capping of entire site).

The RAP includes an unexpected finds protocol and contingency measures to manage redevelopment works during the course of remediation.

Built has incorporated the requirements of the approved RAP into the CEMP to ensure remediation works are completed in compliance with Condition A20.

9.2 Methods and Objectives of the RAP

It is proposed that the remediation method will involve the on-site management of soils impacted by bonded ACM by capping the entire site with concrete building slabs and pavements or capping with clean imported filling (virgin excavated natural material (VENM) or excavated natural material (ENM) or validated on-site soils within landscape areas (where required).

The objective of the RAP is to ensure that the site is remediated in an acceptable manner, with minimal environmental impact, to a condition suitable for the proposed university development. The objectives of this RAP are therefore to provide a strategy for site remediation which:

- Minimises impacts from the site on the environment and on public health and safety during site remediation;
- Maximises the protection of workers involved with site remediation;

- Renders the site safe for the proposed land use and substantially reduces potential exposure pathways to contaminants;
- Minimises impacts on the local environment during and following site remediation.

The RAP also provides an outline working plan for the excavation, stockpiling, management and disposal of excess spoil and sediment controls and a contingency plan.

9.3 Responsibilities

Contractor (Built)

The contractor is responsible for on-site operations including:

- Demolition of site structures and clearance following demolition;
- Handling of fill materials (contaminated or otherwise) including excavations, stockpiles, segregation, placement, compaction, and disposal of unsuitable or excess materials;
- Disposal of contaminated soil or excess fill to a licensed landfill (after classification) if required;
- Safety of all personnel on site;
- Measures to minimise environmental effects;
- Preparation of a site-specific Construction Environmental Management Plan (CEMP) and WHS plan. The CEMP must reference this RAP and will require review and comment by DP to confirm consistency with the objectives of the RAP prior to commencement of remediation;
- Ensure required licenses and approvals from regulatory authorities are obtained prior to remediation works commencing. It is noted that an appropriately licenced contractor will be required to conduct earthworks within the site due to the presence of bonded ACM in filling;
- Collation of waste/ import tracking documentation, disposal dockets, delivery receipts, air monitoring records etc and submission to the client and DP in a timely manner for review and inclusion in the validation report.

Occupational Hygienist (OH)

- Advice on management of asbestos contamination (if required);
- Set-up and maintenance, analysis and reporting of air monitoring for air borne asbestos fibres during construction works resulting in the disturbance of fill materials (i.e. any excavations, stockpiling, placement or transport of fill materials), where required. It is noted that minor ACM fragments were observed within filling at the site, however, there is a risk that further ACM is present.

General Site Validation (Douglas Partners Pty Ltd)

- Advice on excavation and segregation of contaminated soils (where required);
- Validation of excavations (where required);
- Regular inspections of remediation and validation works;
- Waste classification of soil / fill requiring off-site disposal;
- Review of proposed imported material reports / certificates to confirm suitability for use on-site prior to importation;
- Sampling and classification of imported fill materials (where required);
- Provision of a remediation and validation report;
- Correspondence/liaison with the Site Auditor and regulatory authority (if required) throughout the remediation works;
- Provision of a long term SMP.

9.4 Remediation Strategy

The adopted remediation approach for the development is as follows:

- Off-site disposal of bonded asbestos impacted soils from the upper fill profile where required as part of earthworks construction (i.e. excess soils not able to be reused on-site) following appropriate waste classification;
- On-site management (capping) of bonded asbestos impacted soils.

On-site management of bonded asbestos contaminated soil would generally comprise the following:

- Excavation to invert depth of proposed capping layer;
- Placement of excavated contaminated materials in proposed fill areas (i.e. where beneath the invert depth for the proposed capping layer) where applicable ensuring bonded ACM is not left at the ground surface, subject to geotechnical suitability;
- Disposal of excess contaminated soils to an appropriately licensed landfill following waste classification;
- Capping of contaminated soils with concrete (ie building slabs, concrete pavements) or clean soils within landscape areas. It is noted that given the widespread nature of fill materials containing building waste (potential source of hazardous building materials (HBM) including asbestos) and observed bonded ACM across the site, capping of the entire site will be required (precautionary approach) in the absence of detailed asbestos investigation and validation.

It is noted that existing building and construction of the proposed buildings and pavements will largely provide the above capping, with only localised capping within landscape areas.

If visible bonded asbestos is encountered during earthworks, the material will either be:

- Immediately covered by clean fill to prevent exposure to personnel and demarcated to prevent future disturbance where possible;
- Excavated and placed immediately in proposed fill areas and covered over to prevent exposure to personnel;
OR
- Collected, bagged and disposed to a licensed landfill by appropriately licensed personnel in accordance with SafeWork NSW Code of Practice and regulatory requirements.

9.5 Contingency Plan

If contaminated soil quantities are such that they cannot be accommodated beneath the concrete paved areas or 300mm thick VENM/ENM capping layer (landscape areas), the excess materials will require stockpiling, classification (if required) and off-site disposal to a licensed landfill in accordance with NSW EPA requirements.

If indications of gross soil contamination are observed on-site during remediation works (i.e. staining / odours etc.), the materials must be appropriately investigated by a suitably qualified environmental consultant and either managed on site (if appropriate) or disposed off-site to a licenced landfill following classification.

9.6 Unexpected Contaminated Finds Protocol

The results of previous assessments at the site indicate the presence of PAH, TRH (long chained), heavy metal and bonded asbestos contamination within filling / soil across the site. While statistical analysis and consideration of the ecological setting and proposed development indicates that remediation for the identified PAH, TRH and heavy metal impacts are not warranted, due to the historical demolition activities and the presence of uncontrolled filling at the site, there is potential for additional contamination within site soils (including contaminants mentioned above) which may be considered 'hot spots'.

Built and Douglas Partners will undertake inspections as site excavations and remediation works progress. In the instance of an unexpected contaminated find, the following protocol will be implemented:

1. Works must cease in the area and the supervisor is to be notified immediately
2. The area should be cordoned off to prevent access by other workers and public
3. A suitably qualified environmental consultant will be engaged to provide interim advice based on visual inspection on construction health and safety, material storage and material disposal to allow construction to proceed as soon as practical.
4. Unexpected potentially contaminated material will be excavated and separately stockpiled in a secure location on strong impermeable plastic sheeting and covered top and sides with securely fitted plastic sheeting.
5. The stockpile will be protected by adequate sediment controls to collect runoff and prevent overland stormwater flow from affecting the base of the stockpile.
6. Potentially contaminated materials from different parts of the construction area will be segregated into separate stockpiles. The separate stockpiles should be signposted and the source location of the materials on site recorded.
7. When the potentially contaminated material has been removed, the area from which this material was excavated will also be isolated. Further excavation or other construction work will not occur in that area until advice from a suitably qualified environmental consultant is provided confirming that any contaminated material has been removed and that the area is suitable for further excavation or construction activity.
8. The location from which potentially contaminated materials is excavated and the location of the stockpile of excavated material will be recorded on a site plan. Records will include an outline of the area and depth of the potentially contaminated materials and the volume of material excavated.
9. A suitably qualified environmental consultant will assess the potentially contaminated material and prepare a report advising whether the material is contaminated at levels exceeding the NSW EPA endorsed guidelines for reuse on-site and/or whether the material needs to be disposed of off-site as waste, and the classification of that waste.
10. Where contaminated material is assessed as being unsuitable for reuse on site, the area where the material was excavated will require validation.

11. All excavation, handling, loading and transport of contaminated materials must be undertaken by a licenced contractor in accordance with the appropriate regulatory approvals and legislative requirements.

In the event that a person onsite identifies or disturbs suspected Asbestos Containing Materials (ACMs) that are not identified on the Asbestos Register, Built will follow all reporting and notification requirements and the following protocol:

1. Stop work in the area potentially impacted by ACM as soon as it is safe to do so and move to the upwind side of the area, or away from the area.
2. Assess the potential immediate risk to human health posed by the unexpected find and assess if evacuation is necessary.
3. Delineate an exclusion zone around the affected area using fencing and/or appropriate barriers and signage. Keeping soil / materials damp will minimise the release of fibres to air.
4. Contact the Environmental Consultant / Occupational Hygienist for advice and request a site visit to undertake a risk assessment of the unexpected find and determine what further assessment and/or remediation works are required.
5. Implement advice and validate outcomes are assessed by the Environmental Consultant / Occupational Hygienist to be satisfactory. Document outcome, presenting recommendations to the Superintendent & Planning Secretary.
6. Remove ACM from site and dispose to suitable licenced waste facility. Handling, loading and transport of contaminated materials must be undertaken by a licenced contractor in accordance with the appropriate regulatory approvals and legislative requirements.
7. Receive clearance certificate from the Environmental Consultant / Occupational Hygienist.
8. Return to work once written approval received and site personnel appropriately consulted.

The unexpected asbestos management procedure during Construction is as follows:

Where small fragments of ACM or suspected ACM are found, and provided that:

- The total number of fragments is < 20, or
- The total surface area of the fragment/piece is < 1 m², or
- The fragments are spread over an area of < 10 m², and
- The fragments are non-friable and located on ground surface or within the topsoil layer then the Contractor Environmental Scientist / Engineer will collect any fragments and place it in a 200 mm polythene bag for later disposal at an appropriate waste facility.
- A detailed visual inspection of the area will be carried out by Built and the Environmental Consultant / Occupational Hygienist which will involve wet raking of the areas to a depth of 10 cm for any further fragments. If no further fragments are identified, works can continue.

If, during the visual inspection, Built and the Environmental Consultant / Occupational Hygienist determines that the criteria described above are exceeded, or if suspected asbestos / ACM continues to be identified during excavation works and/or if it is thought that any uncovered material might be considered asbestos containing and friable, works will cease and the Environmental Consultant / Occupational Hygienist will assess the situation and determine an appropriate course of action.

If required, the Built will engage an Environmental Consultant / Occupational Hygienist to remove samples of the material for testing at a NATA-accredited laboratory and will monitor airborne dust levels. Following testing, the Environmental Consultant / Occupational Hygienist will determine and report:

- if the asbestos is non-friable or friable
- the extent of the contamination
- options for the appropriate remediation of the area
- the requirement for a licenced asbestos removalist
- The requirement for health screening of workers on site.

10.0 Aboriginal Cultural Heritage Management Plan

10.1 Background

Archaeological Management and Consulting Group (AMAC) in conjunction with Streat Archaeological Services Pty Ltd (SAS) was commissioned by Azusa Sekkei in January 2019, to prepare a full Aboriginal Cultural Heritage Assessment and Aboriginal Archaeological Assessment including full consultation and a programme of test excavation for the proposed development of an educational facility at Lot 1 DP 1199904, at the following street address 9 Church Street, Newcastle, New South Wales.

A Due Diligence Aboriginal Archaeological Assessment of the study area was undertaken by AMAC (2019), of which it was recommended that further investigation including a programme of test excavation takes place prior to any works commencing.

In accordance with Condition C13, these documents have since been upgraded to an Aboriginal Cultural Heritage Management Plan (ACHMP) after the reports were part of a successful State Significant Development (SSD # 9787) application and subsequent Development Consent by the Department of Planning, Industry and Environment on 11th December 2019.

This document has been compiled in full consultation with the Aboriginal stakeholders in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents (DECCW 2010).

The aims of the Aboriginal Cultural Heritage Management Plan (ACHMP) are to facilitate in the implementation of mitigation and conservation strategies for the project site. The development will impact on intact soil profiles and Aboriginal archaeological deposits and objects and as such this document outlines the processes that have been set in place to manage this impact on the Aboriginal cultural heritage of the project site prior to the development taking place.

Test excavation was undertaken over three days 08/01/20 - 10/01/2020. The programme was conducted under the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales and consisted of the proposed excavation of 15 test trenches (50cm x 50cm). These were situated evenly across the site in order to obtain information and data that could systematically determine a distribution pattern and/or density pattern within a localised scale of the site.

No Aboriginal archaeological and cultural material/ deposits were located as a result of the programme of test excavation. A high level of disturbance was observed, and intact soils were found to be sterile.

Further investigation is not warranted, and works may proceed with caution.

10.2 Unexpected Aboriginal Archaeological Finds Protocol

In accordance with the ACHMP, in the instance of an unexpected archaeological find that is of suspected Aboriginal cultural heritage nature or human remains, the following protocol's will be implemented:

If any suspected Aboriginal archaeological deposits and/or objects are located during the development, then the following steps should take place;

All work is to cease in the immediate vicinity of the deposits and/or objects.

- Site manager is to be informed immediately.
- The area is to be demarcated, covered with geo-tech fabric and a 5-metre radius buffer around the suspected Aboriginal archaeological deposits and/or objects. (Works not included in the demarcated area can continue without stoppage)
- The site manager shall inform all workers of the status of the demarcated area and one worker shall be left in place at the site to ensure no unintended damage occurs.
- AMAC offices are to be called or Mr Benjamin Streat (Section 6.2) or a suitably qualified archaeologist. Contact time and date to be noted in the site diary or a suitable record produced.
- The suspected Aboriginal archaeological deposits and/or objects shall be assessed by AMAC or a suitably qualified archaeologist.
- If required, the AMAC employee or a suitably qualified archaeologist shall inform the Registered Aboriginal Parties and the Department of Planning, Industry and Environment and register the site with AHIMS
- Further assessment and mitigation may need to take place (Section 7.0).
- Suitable quality reporting takes place, including RAP consultation and variations to the ACHMP.
- RAPs review and approve ACHMP.
- Amended ACHMP submitted to DPIE and RAPs.
- Written approval from Department of Planning, Industry and Environment received.
- Works in that area recommence.

Should any human remains be located during the following development;

- All work is to cease in the immediate vicinity of the human remains (works not included in the demarcated area can continue without stoppage)
- Site Manager is to be informed immediately.
- The NSW police and NSW's Environment line be informed as soon as possible (Section 6.2).
- The area is to be demarcated, covered with geo-tech fabric and a 5 metre radius buffer around the remains;
- The site manger shall inform all workers of the status of the demarcated area and one worker shall be left in place at the site to ensure no unintended damage occurs.
- If it has been established that the human remains are Aboriginal ancestral remains (this process would need to be in the hands of NSW Police and all statutory requirements and protocols would fall under NSW Police jurisdiction) then,
- AMAC offices are to be called or Mr Benjamin Streat (Section 6.2) or a suitably qualified archaeologist. Contact time and date to be noted in the site diary or a suitable record produced.
- The suspected Aboriginal archaeological deposits and/or objects shall be assessed by AMAC or a suitably qualified archaeologist.
- Further assessment and mitigation may need to take place (Section 7.0) including registration of site with AHIMS and consultation with Planning, Industry and Environment and RAPs.
- Suitable quality reporting takes place, including RAP consultation and variations to the ACHMP.
- RAPs review and approve ACHMP.
- Amended ACHMP submitted to DPIE and RAPs
- Written approval from Department of Planning, Industry and Environment received.
- Works in that area recommence.

11.0 Archaeological Research Design & Excavation Methodology

11.1 Background

In accordance with Condition C17, Built commissioned AMAC to prepare a Research Design and Excavation Methodology (RDEM) for the project.

To mitigate the heritage impact to known relics of potential local significance, a targeted archaeological monitoring program has been developed in relation to areas of archaeological potential to be impacted on by excavation works. Initial excavation within all archaeological monitoring work zones will be under the supervision and direction of a qualified archaeologist and operate under the guidance of the Research Design (see Section 6.0 of the RDEM) and Excavation Methodology (see Section 7.0 of the RDEM). Other areas of the site subject to excavation works but not part of an archaeological monitoring zone will be subject to an unexpected finds protocol.

The RDEM will form the guiding documentation for the management of any historical archaeological excavation at the study site. The onsite archaeological program has been specifically designed to monitor, excavate and record locally significant archaeological relics which will be disturbed or removed by the development, in advance of any bulk earthworks program.

Should any unexpected or unassessed relics be uncovered during excavation, works will cease while these are investigated. Further assessment and liaison with DPIE or its relevant heritage delegate (Heritage, DPC) may be required for such finds.

11.2 Unexpected Non-Aboriginal Heritage Finds Protocol

It is noted that apart from the targeted monitoring areas identified by AMAC, no known relics have been identified across all other areas to be impacted on by the proposed development. Therefore, AMAC considers these remaining portions to have nil heritage impact and archaeological monitoring unnecessary. Instead, the below unexpected finds protocol will be in place for the duration of works.

Prior to commencement of works, a qualified Archaeologist will provide on-site contractors with an archaeological site briefing. The brief will inform contractors of the historical context of the site, anticipated soil profile, types of unexpected finds that may be encountered, and the stop work procedures to follow in the instance of such.

Procedure

1. Unexpected item discovered
2. Stop work, protect item(s) and form exclusion zone around work area.
3. Notify Built site management immediately.
4. Built site management to contact the Superintendent and AMAC.
5. AMAC will attend site to inspect the potential relic.
6. AMAC will complete a preliminary assessment and recording of the potential relic. If the item is classified as non-heritage, return to work after written approval received from the Superintendent and AMAC.
7. If the item is assessed as being a relic, the Superintendent and AMAC will contact the Heritage Division. The relic and the surrounding area are to remain protected and works must not resume in this area.
8. Review CEMP and approval conditions (if required).
9. Resume work once written approval is received from the Heritage Division.

12.0 Monitoring and Review

A23. Any condition of the consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, Site audit report and independent auditing.

Note: For the purposes of this condition, as set out in the EP&A Act, “monitoring” is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an “environmental audit” is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.

12.1 Environmental Monitoring

The Construction Environmental Management Plan & Sub-Plans shall be monitored following implementation to ensure that:

- Environmental operational controls are being effectively applied and maintained;
- Project specific environmental monitoring targets specified in the Development Consent or other planning permits for air, water and noise are being met;
- Unpredicted impacts are identified, and remedial action is taken; and
- The project objectives listed above are being met.

Responsibilities for monitoring and compliance requirements are detailed in the Project Environmental Plans and the Project HSE Risk Register (Appendix 5) as outlined within Sections 5.0, 6.0, 7.0 and 8.0 of the CEMP and relevant sections of the CEMP Sub-Plans.

Monthly internal reports are provided to the Construction Manager and General Manager for review. The performance of projects against company environmental objectives and targets is reviewed on a quarterly basis.

The Site Manager/Foreman will ensure that environmental controls are inspected on a regular basis, as part of the site inspections described in the HSE Plan or as separate environmental inspections and are in accordance with the requirements outlined in the **‘Project Environmental Aspects and Impacts Register.’**

All monitoring activities will be completed by appropriately qualified persons as required and records maintained onsite for auditing and compliance reporting purposes.

- Monitoring Checklist (Appendix B10)
- Built Safe Mandatory Standards (BSMS) Review (asbestos, temporary works, demolition)

12.2 Environmental Auditing

Project audits shall be scheduled by the Regional HSE Manager and form part of the company's audit schedule (Refer to clause 36.0 Audits of the Built HSE Plan). Audits shall address the requirements of ISO9001, ISO14001, AS4801, Built's Management System and the various Management Plans.

Project HSE Audits, using **HSE-104 Project HSE Audit Checklist**, will be carried out by the HSE Officer assigned to the project within the first 3 months of project commencement, and at 6 monthly intervals thereafter. Where the project duration is under 3 months an audit is not required unless requested by the Construction Manager or above. These audits are intended to verify compliance with the HSE Plan.

Independent Environmental Audits by GHD will be conducted in accordance with the following SSD requirements:

D29. Proposed independent auditors must be agreed to in writing by the Planning Secretary prior to the preparation of an Independent Audit Program or commencement of an Independent Audit.

D30. Prior to the commencement of construction, an Independent Audit Program prepared in accordance with the Independent Audit Post Approval Requirements (Department 2018) must be submitted to the Planning Secretary and the Certifier.

D31. Table 1 of the Independent Audit Post Approval Requirements (Department 2018) is amended so that the frequency of audits required in the construction phase is:

- (a) an initial construction Independent Audit must be undertaken within eight weeks of the notified commencement date of construction;
- (b) a subsequent Independent Audit of construction must be undertaken no later than six months from the date of the initial construction Independent Audit; and

In all other respects Table 1 remains the same. The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified above, upon giving at least 4 weeks' notice to the applicant of the date upon which the audit must be commenced.

D32. Independent Audits of the development must be submitted to the Planning Secretary and must be carried out in accordance with:

- (a) the Independent Audit Program submitted to the Planning Secretary and the Certifier under condition D30 of this consent; and
- (b) the requirements for an Independent Audit Methodology and Independent Audit Report in the Independent Audit Post Approval Requirements (Department 2018).

D33. In accordance with the specific requirements in the Independent Audit Post Approval Requirements (Department 2018), the Applicant must:

- (a) review and respond to each Independent Audit Report prepared under condition D30 of this consent;
- (b) submit the response to the Planning Secretary and the Certifier; and
- (c) make each Independent Audit Report and response to it publicly available 60 days after submission to the Planning Secretary and notify the Planning Secretary and the Certifier in writing at least seven days before this is done.

D34. Notwithstanding the requirements of the Independent Audit Post Approval Requirements (Department 2018), the Planning Secretary may approve a request for ongoing annual operational audits to be ceased, where it has

been demonstrated to the Planning Secretary's satisfaction that an audit has demonstrated operational compliance.

12.3 Environmental Non-Conformance and Corrective Action

12.3.1 Environmental Non-Conformance

A non-conformance is the failure or refusal to comply with the requirements of the project system documentation, including this CEMP and supporting documentation, and any reasonable written or verbal instruction given.

Under the SSD-9787 development consent, a non-compliance is an occurrence, set of circumstances or development that is a breach of this consent. Non-conformances may be identified through project compliance reporting (Section 4.4 and Conditions C22 to C25), environmental monitoring (Section 12.1), environmental auditing (Section 12.2), or incident management (Section 4.7).

Notification of non-conformances must be in accordance with the conditions listed below.

A28. The Planning Secretary must be notified in writing to compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of any non-compliance. The Certifier must also notify the Planning Secretary in writing to compliance@planning.nsw.gov.au within seven days after they identify any non-compliance.

A29. The notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

A30. A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance. Under this condition, the procedure outlined in Section 4.7 will be implemented.

12.3.2 Reporting Non-Conformances

Other than external consultants and authorities, any member of Built's Project Team may raise a non-conformance or improvement opportunity through the Project Manager, Site Manager or Foreman.

All Built staff have the authority to instruct works to cease in an area concerned if they believe they do not comply with project HSEQ requirements. Works will not continue until further review by the Project Manager, Site Manager or Foreman is undertaken.

The Built Project Manager is responsible for reporting all incidents, internally and externally, as required, and ensuring corrective/preventive actions are closed out within applicable timeframes. Non-conformance Reports are completed using Rapid Incident and submitted to the required stakeholders.

An example Rapid Incident NCR template is attached in Appendix B18.

When a non-conformance occurs, Built will:

- React to the non-conformity and, as applicable:
 - Take action to control and correct it
 - Deal with the consequences, including mitigating adverse environmental impacts
- Evaluate the need for action to eliminate the causes of the non-conformance in order that it does not recur or occur elsewhere by:

- Reviewing the non-conformance
- Determining the causes of the non-conformance
- Determining if similar non-conformances exist or could potentially occur
- Implement any actions required
- Review the effectiveness of any corrective action taken, and
- Make changes to the environmental management system if necessary

Corrective actions will be appropriate to the significance of the effects of the non-conformance, including the environmental impacts.

Built will retain documented information as evidence of:

- The nature of non-conformances and any subsequent actions taken, and
- The results of any corrective actions

12.3.3 Corrective Actions

For each non-conformance identified, Built will implement corrective / preventative actions. In addition, any environmental management improvement opportunities can be initiated as a result of incidents or emergencies, monitoring and measurement, review of compliance, audit findings or other reviews. Improvement opportunities may also result in the implementation of corrective/preventative actions. Built will provide this information to the Superintendent (dwp) in monthly Project Control Group reports.

Corrective/preventative actions and improvement opportunities will be entered into Built's HSEQ system database (Built.Safe) and include detail of the issue, action required and timing and responsibilities. The record will be updated with date of close out and any necessary notes. The database will be reviewed regularly to ensure actions are closed out as required.

An example of the Built.Safe NCR Template is attached in Appendix B19.

Procedures for corrective actions will include a process for verification of how the non-conformance has been closed out and to confirm that it is effective in addressing the non-conformance.

12.4 Review of Environmental Management Plans

It is acknowledged that Condition A31 regarding the revision of strategies, plans, and programs, requires that within three (3) months of:

- (a) the submission of a compliance report under Condition C22
- (b) the submission of an incident report under Condition A27
- (c) the submission of an Independent Audit under Condition D32
- (d) the approval of any modification of the conditions of this consent; or
- (e) the issue of a direction of the Planning Secretary under Condition A2 which requires a review, the strategies, plans, and programs required under this consent must be reviewed, and the Planning Secretary and the Certifier must be notified in writing that a review is being carried out.

If necessary, to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans, programs or drawings required under this consent must be revised, to the satisfaction of the Planning Secretary and/or Certifier (where relevant). Where revisions are required, the

revised document must be submitted to the Planning Secretary and/or Certifier for approval and/or information (where relevant) within six (6) weeks of the review.

The aim of this Condition is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.

Built's standard procedure is to review all management plans every three (3) months or as required by any significant event, incident, instruction (internal or external), and significant change in the project scope and/or conditions. It must be noted that a review may not result in the revision of strategies, plans, and programs if deemed to still be adequately addressing the environmental requirements of the project.

Reviews and revisions (if required) are completed by the Built project team, typically consisting of the Project Manager, HSE Manager, and Site Manager in consultation with other stakeholders including Authorities, employees and/or the community if required.

Revised management plans are issued to all required Authorities, consultants, employees and subcontractors to ensure compliance within Condition A25 and further discussed in project / site meetings.

Appendix A1 – Environmental Aspect and Impact Register

Environmental Aspects and Impacts Risk Assessment Matrix				
Consequence (severity) – is how serious could the environment be harmed		Likelihood – is an estimate of how probable it is for the environmental hazard to occur leading to environmental harm.		
		Very Likely (VL)	Possible (POS)	Very Unlikely (VU)
HIGH SEVERITY (H) <ul style="list-style-type: none">Irreversible damage to the environmentExtensive damage to the environment e.g. large area of contamination (costs exceeding > \$500k)Court proceedings leading to prosecution and significant fineDamage to Built's reputation as a result of widespread adverse publicity	RISK LEVEL	HIGH	HIGH	MEDIUM
MEDIUM SEVERITY (M) <ul style="list-style-type: none">Temporary harm to the environment e.g. small area of contamination but no ongoing long-term damageClean-up costs < \$250kLow level fineNo adverse media publicity on a significant level		HIGH	MEDIUM	LOW
LOW SEVERITY (L) <ul style="list-style-type: none">Minor harm to the environment e.g. small-scale spill readily mitigated/cleared; Noise complaint from adjoining property		MEDIUM	LOW	LOW
RISK LEVEL		HIERARCHY OF CONTROL		
		Order of priority in the selection of controls corresponding to level of risk (Acceptable Risk Treatment)		
High Risk - Action must be taken to eliminate the risk to the environment		1 st Elimination - i.e. the permanent removal of the hazard		
Medium Risk – if the risk to the environment cannot be eliminated so far as is reasonably practicable or minimised so far as is reasonably practicable by implementing control measures listed as 2nd, 3rd or 4th (in this order of priority)		2 nd Substitution - substituting (wholly or partly) the hazard giving rise to the risk with something that gives rise to a lesser rise		
Low Risk - if the risk to the environment cannot be eliminated so far as is reasonably practicable or minimised so far as is reasonably practicable by implementing control measures listed as 2nd, 3 rd , 4 th or 5th (in this order of priority) then Administrative controls may be applied		3 rd Isolation - isolating the source of the hazard that poses a threat to the environment		
		4 th Engineering - controls to reduce the risk to the environment		
		5 th Administrative - procedural controls to eliminate or reduce the risk of environmental contamination		

Risks levels (i.e Consequence and Likelihood) in relation to environmental Aspects and Impacts rated as 'High' or 'Medium' are considered 'Significant' as they have the potential to adversely impact on the environment, result in additional costs to and potential fines or damage the company's reputation. Where an environmental aspect results in a positive impact on the environment (e.g. waste elimination or waste re-use) these are considered to also be significant.

Environmental Aspect	Environmental Impact	Risk Rating (Risks ranked as 'High' or 'Med' are deemed significant)	Legal Requirements	Environmental Actions, Controls and Criteria	Responsibility
SECTION D: ENVIRONMENTAL ASPECTS					
Dust Generation Particulate Emissions (General)	Air pollution	Low	NSW - POEO Act (Sections 124-126)	<ul style="list-style-type: none"> Install shade cloth on perimeter fencing Vehicle corridors will be clearly identified and restricted to control vehicle access onsite. Limit vehicle speed onsite to 5km/hr Reduce work activities / stop work during moderate to high wind velocity periods. Turn off vehicle engines whilst not in use (no long periods of idling) 	<ul style="list-style-type: none"> Built PCBU
Dust Generation (Demolition)	Air pollution	Medium	NSW - POEO Act (Sections 124-126)	<ul style="list-style-type: none"> Breakers and crushing equipment to be fitted with dust filtration equipment or water sprays to control dust emissions. Construction vehicle loads to be watered and covered Stockpiles to be watered and covered as required 	<ul style="list-style-type: none"> PCBU
Dust Generation (Construction)	Air pollution	Low	NSW - POEO Act (Sections 124-126)	<ul style="list-style-type: none"> Minimise areas of site disturbed, and stage works where possible. Dust suppression strategies to be used, i.e. water sprays, soil binders, hydro mulching, controlled speed onsite, roadbase + shaker grids. On site drilling or coring operations will be undertaken by equipment fitted with air filtration equipment. Construction vehicle loads to be watered and covered Stockpiles to be watered and covered as required 	<ul style="list-style-type: none"> Built PCBU
Odour	Air pollution Odour	Low	NSW - Protection of the Environment Operations Act 1997, s 129; Common law of nuisance; Local Government Act 1993, s125	<ul style="list-style-type: none"> If odorous materials uncovered, re-cover immediately and notify Built. Seek advice from consultant regarding soil /materials management. 	<ul style="list-style-type: none"> Built PCBU
Emissions to Air	Air pollution	Low	NSW - Protection of the Environment Operations Act 1997, s 124-125, s 139	<ul style="list-style-type: none"> Ensure machinery is maintained correctly 	<ul style="list-style-type: none"> PCBU
Greenhouse	Resource use Air pollution Global warming Light pollution	Low	Green Star	<ul style="list-style-type: none"> Ensure purchased electrical products/whitegoods products comply with specification for CFCS & energy ratings Low solvent paints to be used as a priority Building to conform to Green Star performance criteria Deliveries / transport from site effectively planned to limit inefficient transport, assist back loading, minimise road traffic noise etc Workers encouraged to carpool where possible or catch public transport External lighting to be in compliance with AS 4282-2019 to control of the obtrusive effects of outdoor lighting 	<ul style="list-style-type: none"> Built PCBU
Stormwater (Discharge from sedimentation basins, flooding)	Water contamination	Medium	NSW - Protection of the Environment Operations Act 1997, s 120, 122; Protection of the Environment Operations (General) Regulation 1998, cl 55; Local Government Act 1993, s 638 ANZECC Water Quality Guidelines NSW Department of Housing's Managing Urban Stormwater (2004) ANZECC Water Quality Guidelines Managing Urban Stormwater: Soils & Construction (4 th Edition, Landcom, 2004).	<ul style="list-style-type: none"> All drains within the construction site or outside the site which are likely to be affected, are to have environmental controls such as bunding, geofab over drains etc and inspected as part of the weekly site inspections Implementation of Built Erosion & Sediment Control Plan & regular monitoring of measures 	<ul style="list-style-type: none"> Built PCBU

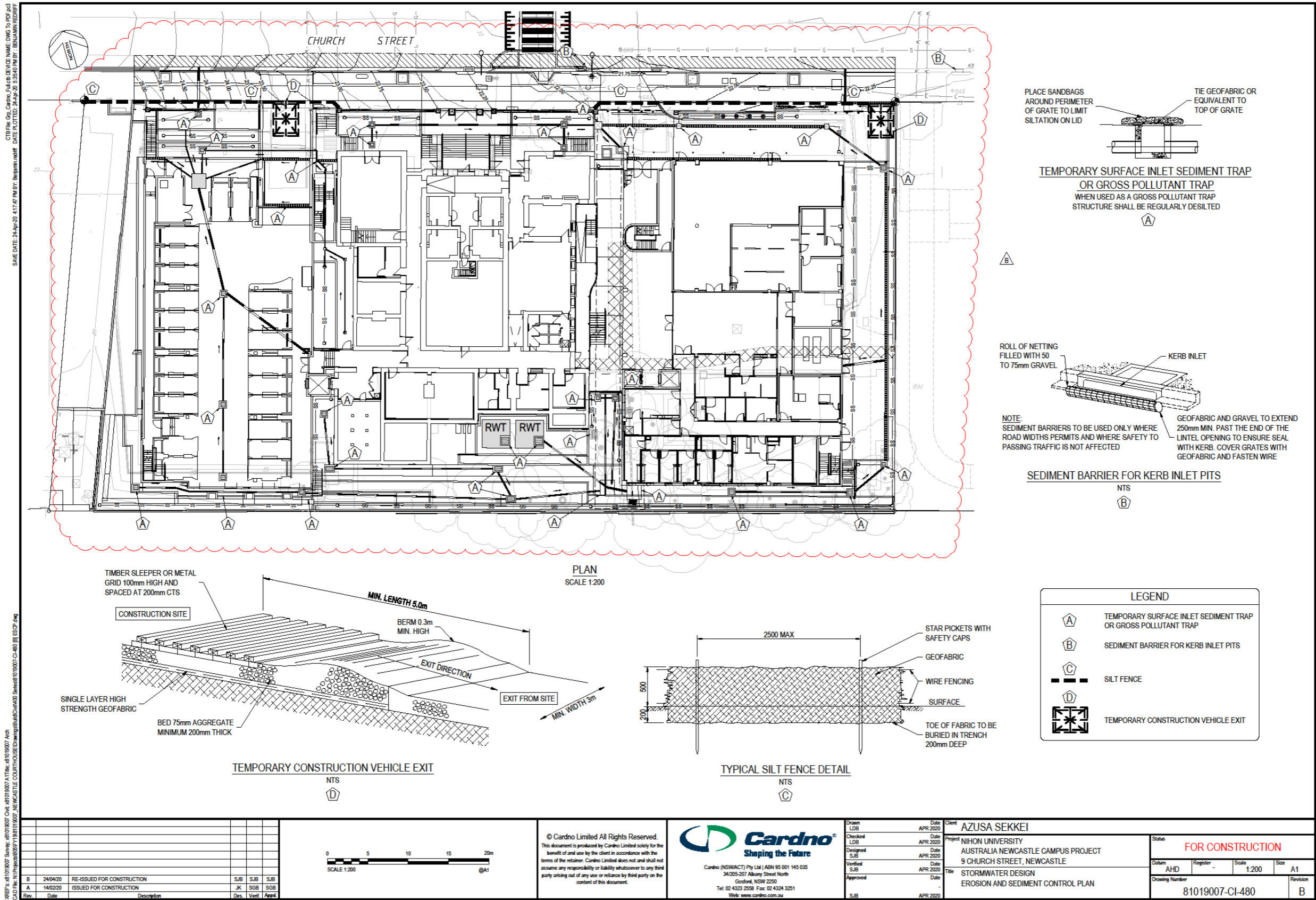
Environmental Aspect	Environmental Impact	Risk Rating (Risks ranked as 'High' or 'Med' are deemed significant)	Legal Requirements	Environmental Actions, Controls and Criteria	Responsibility
Sewer (Trade waste)	Water pollution	Low	NSW - Protection of the Environment Operations (General) Regulation 1998, cl 55, s 31; Local Government Act 1993, s 68 (cl 4 of Part C of the Table)], Consent to Discharge Industrial Trade Wastewater, Special Conditions Schedule 6 paragraphs 1-2	<ul style="list-style-type: none"> No paints or other chemical to be poured down drains. If required, obtain trade waste licence for discharge or local council approval 	<ul style="list-style-type: none"> Built PCBU
Land (Acid sulphate soils, contaminated soils, imported fill)	Contaminated waterways Soil contamination	Low	NSW - Contaminated Land Management Act 1997, s 60; Contaminated Land Management Regulation 1998, cl 3 Acid Sulphate Soils Management Advisory Committee SEPP 55 – Remediation of Land	<ul style="list-style-type: none"> Potential for acid sulphate soils will be assessed based on the site's proximity to low-lying coastal areas eg. Coastal plains, wetlands and mangroves where the surface elevation is less than five metres above mean sea level. Stop work if unexpected potentially contaminated soils are encountered. Obtain waste classification from consultant in accordance with DECC guidelines Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes (June 2004) www.environment.nsw.gov.au/waste/envguidlms/index.htm. Remediation Action Plan has been developed and implemented as per CEMP Section 9.0 Sign off by Site Auditor may be required to validate clean up. Any groundwater or ponded rainwater will be tested and classified by consultants prior to disposal. Check Geotech requirements. Ensure soil classification suitable for land use i.e. Schools, residential, commercial etc. Unexpected Finds Protocol as shown in CEMP Section 9.6 	<ul style="list-style-type: none"> Built
Land	Contaminated waterways Soil contamination	Medium	NSW - Contaminated Land Management Act 1997, s 60, Contaminated Land Management Regulation 1998, cl 3, Protection of the Environment Operations Act 1997, s 142A-E ANZECC Publication: Organochlorin Pesticides Waste Management Plan (1999)	<ul style="list-style-type: none"> If odorous soils (rotten egg gas) or grey/yellowed mottled soils encountered, stop work. If suspected, consultant to prepare Acid Sulphate Soil Management Plan (ASSMP). Excavation and neutralisation to be supervised by consultants as per ASSMP. Excavation works in accordance with Remediation Action Plan Excavation works in accordance with Erosion and Sediment Control Plan DBYD to be completed prior to all works Controls to be implemented as per CEMP Section 5.0, 6.0, 7.0, 8.0 	<ul style="list-style-type: none"> Built PCBU
Resources – water, materials, energy	Resource use Landfill Air pollution	Low	NSW - POEO Act Hunter Water Act 1991	<ul style="list-style-type: none"> For design and construct jobs, refer to the design specification for ESD requirements and product choices. Buy local wherever possible to reduce impacts of transport on environment. Implementation of Built Erosion & Sediment Control Plan & regular monitoring of measures Implementation of CWMSP and Reporting 	<ul style="list-style-type: none"> Built PCBU
Noise	Community complain	High	NSW - POEO Act (Sections 139, 140) Interim Construction Noise Guideline 2009 POEO (Noise) Regulation 2008 NSW EPA 2017 (NPfl)	<ul style="list-style-type: none"> Strict adherence to noise and working hour restrictions. Refer to SSD Consent Conditions. Use hoarding an/or acoustic mats as required. Situate generators and plant away from sensitive receivers. Turn off machinery. Maintain equipment and stop noisy plant until repaired. No early deliveries or construction vehicles idling before or after approved construction hours. Implement control measures in accordance with CEMP Section 7.2 Conduct noise monitoring during works as required by CEMP Section 7.3 Advise community of noisy and/or disruptive work through Built Community Liaison Plan. 	<ul style="list-style-type: none"> Built PCBU

Environmental Aspect	Environmental Impact	Risk Rating (Risks ranked as 'High' or 'Med' are deemed significant)	Legal Requirements	Environmental Actions, Controls and Criteria	Responsibility
Vibration	Community complaints, Damage structures to	Medium	NSW - POEO Act (Sections 139, 140) Environmental Noise Management Assessing Vibration: a technical guideline 2009 DIN 4150-3:1992-02 Structural Vibration	<ul style="list-style-type: none"> Strict adherence to vibration and working hour restrictions. Refer to SSD Consent Conditions. Conduct dilapidation report prior to work starting. Limit the use of vibratory rollers, rock breakers, impact piling etc adjacent to buildings (>7m). Regenerated noise may also transfer through bedrock and building structures. Obtain advice if required Adherence with noise and vibration limits and criteria as outlined in CNVMSP Implement control measures in accordance with CEMP Section 7.2 Conduct vibration monitoring during works as required by CEMP Section 7.3 Advise community of vibration causing and/or disruptive work through Built Community Liaison Plan. 	<ul style="list-style-type: none"> Built PCBU
Community	Community Concerns Noise Restricted access Vibration	High	SSD Conditions of Consent EPA Act 1979 EPA Regulation 2000	<ul style="list-style-type: none"> Provide information (e.g. Signage, letterbox drops) to community on programmed works Provide contact name for inquiries. Advise locals of "noisy" and/or disruptive work through Built Community Liaison Plan. If required in noise sensitive areas and/or in response to complaints, engage consultants to undertake monitoring at nominated receivers. Vehicles will not be permitted to queue outside the site or in residential areas unless a defined area is established which does not adversely impact on neighbours. Control in accordance with CEMP Section 6.0, 7.0 and relevant sub-plans 	<ul style="list-style-type: none"> Built
Flora	Destruction of flora Erosion	Low	NSW - State Environmental Planning Policy No 14 - Coastal Wetlands, s 7(1, 5), 7A; Native Vegetation Act 2003, s 12; Forestry Act 1916, s27(1); National Parks and Wildlife Act 1974, s 117(1), 118(1)]	<ul style="list-style-type: none"> Review planning documentation to determine the presence of any protected, threatened or significant flora. Obtain approvals as required. Trees to be protected and retained as required by SSD & City of Newcastle Requirements. 	<ul style="list-style-type: none"> Built
Waste Litter	Landfill Contamination of waterways Soil contamination	Low	NSW - POEO Act 1997, s 116, s 142, s 143, 144-146NSW - Waste Avoidance and Resource Recovery Act 2001, NSW Crown Lands Act 1989, s 155, Management of Waters and Waterside Lands Regulations - N.S.W., cl 13, POEO (Waste) Regulation 2014, cl 49, 12, 16, 17, 23 Dangerous Goods Act 2008 & Regulation 2014	<ul style="list-style-type: none"> Hazardous materials surveys to be completed. Materials to be removed prior to demolition Registers and waste disposal requirements as per NSW WHS Regulator and DECC/EPA requirements for removal, storage, transport and disposal. General site wastes –use one bin system and sort in contractors' yard to produce quantities of material for recycling, reuse, disposal etc. Do not overfill skip bins. Provide plenty for use. Cover where potential for windblown litter. All waste to be classified prior to removal offsite All waste management controls and monitoring to be in accordance with CEMP Section 8.0 and CWMSPP. 	<ul style="list-style-type: none"> Built PCBU
Chemicals	Contamination of waterways Soil contamination Fumes Worker safety	Low	NSW - POEO Act s 116, s 142, NSW -Work Health and Safety Regulation 2011	<ul style="list-style-type: none"> Chemicals to be stored in bunded areas (impervious + 110% of largest container) away from stormwater drains & pits. Refer NSW OHS Regulator Code of Practice for Storage & Handling of Dangerous Goods, DECC Guidelines for Bunding & Spill Management. Appropriate chemicals storage is in conformance with: <ul style="list-style-type: none"> → AS 1940 The Storage and Handling of Flammable and Combustible Liquids → Storage and Handling of Dangerous Goods State/Territory WHS/OHS Regulator Code of Practice 2005– refer p. 86 DEC requirements http://www.environment.nsw.gov.au/mao/bundingspill.htm Ponded water within bunds will not be discharged to stormwater. Fuel and hydraulic leaks to be cleaned up immediately. 	<ul style="list-style-type: none"> Built PCBU

Environmental Aspect	Environmental Impact	Risk Rating (Risks ranked as 'High' or 'Med' are deemed significant)	Legal Requirements	Environmental Actions, Controls and Criteria	Responsibility
				<ul style="list-style-type: none"> • Drilling muds to be contained within bunds and reused. • Liquid paints NOT to be poured down drains. Spread on waste cardboard or similar and leave to dry. Paint brushes to be rinsed and paint solids allowed to settle. Container of paint solids to be disposed to liquid waste facility. • Construct concrete washout will be off site. • Concrete cuttings to be contained and wetvac to prevent runoff into stormwater drains. • Fuel storage areas must be bunded. Where practicable refuelling shall be undertaken by a mobile facility with appropriate spill control and containment control equipment. • SDS's must be provided to the Foreman prior to a chemical being received on site and by subcontractors using chemicals/products. • All waste management controls and monitoring to be in accordance with CEMP Section 8.0 and CWMSF. 	
Traffic	Site access restrictions Community safety Pollution	Low	Local Government Requirements Dangerous Goods Act 2008 Dangerous Goods Regulation 2014 Roads Act 1993 (s.138)	<ul style="list-style-type: none"> • Develop and implement traffic management plans. Submit to local council as required. • Signage and notices regarding disruptions. • Install shakers and wheel wash as required. • Organise regular street sweeping as required. • All loads of soil, demolition wastes, general wastes etc are to be tarped • All traffic and pedestrian management control and monitoring to be in accordance with CEMP Section 6.0 and CTPMSP. 	<ul style="list-style-type: none"> • Built • PCBU
Hazardous Materials (Lead paint)	Air contamination Contaminated waterways Soil contamination	Low	NSW - POEO Act s 142	<ul style="list-style-type: none"> • If disturbing or removing dust or paint that could contain lead, wear a respirator or dust mask and protective clothing. • Seal the rooms with plastic. • Do not use open-flame torches on lead paint as they create lead fumes. If you must use a heat gun, use it on the lower setting to keep the paint temperature below 370 degrees C. • Avoid using dry-sanding techniques: keep the surface wet to minimise dust. • Don't sweep or use a domestic vacuum cleaner to clean up; lead dust will pass right through it. Use a high-efficiency particulate air (HEPA) vacuum cleaner. These can be hired. • When finished, wipe all surfaces with a damp cloth and high-phosphate detergent. • Wash face and hands before eating, drinking or smoking. • Refer to Lead Safe: A Renovator's Guide to the Dangers of Lead and the Australian Standard AS4361.2 Guide to Lead Paint Management: Part 2 Residential and Commercial Buildings 1998 	<ul style="list-style-type: none"> • Built • PCBU
Hazardous Materials (Asbestos)	Worker health Air contamination Contaminated waterways Soil contamination	High	NSW - POEO Act s 142, NSW POEO (Waste) Regulation 2005, cl 42 Asbestos materials regulations, standards, codes and guidelines Dangerous Goods Act 2008 Dangerous Goods Regulation 2014 EPA Regulation 2000	<ul style="list-style-type: none"> • A licence subcontractor must be used to demolish, remove, repair or disturb asbestos. • A NSW WHS Regulator asbestos licence is required to remove 10 square metres or more of bonded asbestos • A NSW WHS Regulator licence is required to remove, repair or disturb friable asbestos • Final inspection survey to be conducted by qualified Hygienist & Clearance Certificates issued prior to construction works commencing. • All transport of hazardous waste is to be by a licenced contractor in accordance with NSW EPA Guidelines • All waste management controls and monitoring to be in accordance with CEMP Section 8.0 and CWMSF. • Unexpected Finds Protocol as shown in CEMP Section 9.6 	<ul style="list-style-type: none"> • Built • PCBU
Aboriginal heritage Uncovered artefacts	Damage or destruction of heritage items	Low	NSW - Heritage Act 1977, s 146, National Parks and Wildlife Act 1974, s 90-91 EPA Act 1979 & Regulation 2000	<ul style="list-style-type: none"> • Education and training at site toolbox meetings and induction. • It is illegal to destroy heritage items. • Review local or regional environmental plans, or on the State Heritage Register is to be consulted prior to work starting onsite. • Obtain excavation permit issued by the Heritage Council of NSW if required. • Any heritage relics or sites discovered during construction shall be reported to the NSW Heritage Office. • Work in the subject area to cease until specialist advice is obtained. 	<ul style="list-style-type: none"> • Built • PCBU

Environmental Aspect	Environmental Impact	Risk Rating (Risks ranked as 'High' or 'Med' are deemed significant)	Legal Requirements	Environmental Actions, Controls and Criteria	Responsibility
				<ul style="list-style-type: none"> Any evidence of Aboriginal relics discovered during construction shall be reported to the National Parks and Wildlife Service. The area will be fenced, and signs erected to restrict access. Heritage consultants may be required to provide advice on demolition/construction processes and finishes. Implementation of Unexpected Finds Protocol as outlined in CEMP Section 10.2 	
European heritage (Court House items) Uncovered artefacts	Damage or destruction of heritage items	High	NSW - Heritage Act 1977, s 146, National Parks and Wildlife Act 1974, s 90-91 EPA Act 1979 & Regulation 2000 Newcastle LEP 2012	<ul style="list-style-type: none"> Education and training at site toolbox meetings and induction. It is illegal to destroy heritage items. Check of the register of the National Estate. Obtain approval from NPWS (Section 90 consent). Local Land Council representatives and other Consultants may be required to monitor stripping/excavation works. Work in the subject area to cease until specialist advice is obtained. The area will be fenced, and signs erected to restrict access Personnel to be briefed prior to commencement of groundworks in accordance with CEMP Section 11.0 Implementation of Unexpected Finds Protocol as outlined in CEMP Section 11.2 	<ul style="list-style-type: none"> Built PCBU
Emergency Preparedness	Worker health Air contamination Contaminated waterways Soil contamination	Low	Environmental Protection Act 1994 Environmental Protection Regulation 2008 Work Health and Safety Act 2011 Work Health and Safety Regulations 2011	<ul style="list-style-type: none"> Spill kit onsite. Refer to the SDS for advice and procedures. All spills must be reported to the Site Manager & cleaned up. Complete BUILT Accident /Incident report & follow SSD Incident Notification, Reporting, and Response Procedure Implementation of Built Erosion & Sediment Control Plan & regular monitoring of measures Emergency Preparedness and Incident Response in accordance with CEMP Section 4.7 	<ul style="list-style-type: none"> Built PCBU

Appendix A2 – Erosion and Sediment Control Plan



Appendix B – Environmental Schedules



Appendix B1 – Complaints Record

Event Report



No : 007759
Date Of Event : 13/05/2020
Location : Newcastle, Construction, Nihon Univeristy

Reported By : Benjamin Moss
Report Description : TEST_Complaint Report
Event Type : Complaint from Interested Party

1. Primary Event Type

Complaint from Interested Party

TEST_Complaint Report

2. Secondary Event Type

Report Only

3. External Notification Required

Was External Notification Required? Yes

Details

Client

Documents Uploaded

No Files uploaded

4. Location Details

Newcastle - Construction - Nihon Univeristy

Date Of Event 13/05/2020 Time of Incident : 15:10

Exact location :

5. Person/s Involved in the Event

Name	Type	Company	Contact Number
Benjamin Moss	Employee	Built	

6. Person Reporting the Event

Benjamin Moss

7. Event Reported To

Name

Benjamin Moss

Event Reported Time : 13/05/2020 3:10:00 PM

8. Witness(es) to the Event

Name	Type	Company	Contact Number
Benjamin Moss	Employee	Built	

9. Description of Event

TEST - Complaint Report

- Include all details of the complaint as required under the Community Liaison Plan and as recorded on the Community Liaison Register

10. Work Classification

Other:TEST

11. Alcohol or Drugs

Was testing undertaken? : Yes

Alcohol test result: Test not taken

Drug test result: Test not taken

Mobile Use result: Unknown

12. Immediate Actions

TEST

- Immediate actions to resolve the complaint or mitigate disturbance
- Proposed follow-up actions if known
- Provide any additional information required

13. Distribution List

Name	Job Title	Location
Amanda Nicolo	HSE Coordinator	Newcastle
Ben Bates	Site Manager	Nihon Univeristy
Benjamin Moss	Project Manager	Nihon Univeristy
Bill Fousteris	Safety Advisor	
Chloe Mitchell	Administrator	
Clare Gallagher	Sustainability Engineer	
Corey Monk	Director of Strategy and Marketing	
Doug Giffin	Regional HSE Manager North	
Jessica Mendes	HSEQ Administrator	
Joe Karten	Sustainability Manager	4 Parramatta Square
Lee Schiller	Regional HSE Manager - South	
Leif Aleksic	Site Manager	Nihon Univeristy
Liam Tamsett	Site Foreman	Nihon Univeristy
Michael Louis	HSE Coordinator	Newcastle
Paul Farrell	Director HSE	
Rob McLaughlin	Construction Manager	Nihon Univeristy
Scott Grover	HSEQ Manager	SA
Shane Marcus	HSE Manager QLD	
Stacey Karppinen	Marketing Communications Manager	
Steve Parker	Safety Advisor	
Tanya Lim	National Marketing & Communications Manager	



Appendix B2 – Community Liaison Register

Community Liaison Register				Built.			
Project: Nihon University				Complaints Register		Last Updated: 21/01/2020	
REF ID	DATE / TIME RECEIVED	RECEIVED FROM	DESCRIPTION	DATE / TIME RESPONDED	RESPONSE BY	DESCRIPTION	CLOSED (Y / N)
2001-CC001	21/01/2020 1:00pm	Name	Brief description of the complaint	21/01/2020 4:00pm	Built person responding	Brief description of the response including any actions taken or planned, responses received, and outstanding issues.	Y
							N

Community Liaison Register				Built.			
Project: Nihon University				Notices Register		Last Updated: 21/01/20	
REF ID	DATE ISSUED	ISSUED TO	ISSUED BY	METHOD	DESCRIPTION	RESPONSES RECEIVED / DETAILS	CLOSED (Y / N)
2001-CN001	21/01/2020	Name / Group / All	Brief description of the complaint	Letter Email Doorknock Meeting	Brief description of community notice or consultation.	Brief description of the responses received, actions taken or planned, and any outstanding issues.	Y
							N

Community Liaison Register					Built.		
Project: Nihon University			Queries Register			Last Updated: 21/01/20	
REF ID	DATE / TIME RECEIVED	RECEIVED FROM	DESCRIPTION	DATE / TIME RESPONDED	RESPONSE BY	DESCRIPTION	CLOSED (Y / N)
2001-CQ001	21/01/2020 12:00pm	Name	Brief description of the query or concern	21/01/2020 4:00pm	Built person responding	Brief description of the response including any actions taken or planned, responses received, and outstanding issues.	Y
							N



Appendix B3 – Waste Management Report

Recycling Site Reporting

Details

Form id	123590
Created at	13/05/2020
Completed at	13/05/2020
Status	Complete
Respondent	Benjamin Moss
Division	NSW
Business unit	NSW Construction
Department	
Project	Nihon University Newcastle Campus
Subcontractor	[Test/Training Subcontractor]

GUIDANCE NOTES ON HOW TO COMPLETE THE FORM

Record the tonnes of waste recycled by category for the month, and the tonnes of non-recyclable general waste sent to landfill.

Please enter all figures in tonnes.

If no waste was sent for the category, please enter 0 rather than leaving the field blank so the form gets marked as complete.

If your recycling reports are provided in volume (m3), please apply the following conversion factors before entering into the form:

- Metal = 0.9t/m3
- Concrete, Masonry & Tile = 1.3t/m3
- Timber = 0.3t/m3
- Plasterboard = 0.2t/m3
- Commingled Recycling = 0.9t/m3
- Cardboard = 0.1t/m3
- Plastic = 0.2t/m3
- Glass = 0.3t/m3
- Polystyrene = 0.01t/m3
- General Waste = 0.2t/m3
- Excavation Waste = 1.6t/m3

Month	2020/05
-------	---------

Select the year/month for which you're recording waste.

Metal	0
-------	---

Includes steel, aluminium, copper etc (Tonnes).

Concrete, Masonry and Tile	0
----------------------------	---

Includes clean and unclean concrete, concrete blocks, bricks, pavers, asphalt and ceramic and roof tiles (Tonnes).

Timber	0
--------	---

Includes green waste, however excludes excavation waste (Tonnes).

Plasterboard	0
--------------	---

(Tonnes).

Comingled Recycling	0
---------------------	---

Includes items recycled that are not individually

Recycling Site Reporting

identified such as insulation, or are recycled but not displayed in this list (Tonnes).

Cardboard 0

Includes paper (Tonnes).

Plastic 0

(Tonnes).

Glass 0

(Tonnes).

Polystyrene 0

(Tonnes).

General Waste 0

All non-recycled material, including components of recyclable material that are not recovered (Tonnes).

Excavation Waste 0

Includes soil, VENM, ENM, GSW etc, excludes green waste (Tonnes).

Hazardous Waste 0

Includes asbestos, lead, PCBs, and contaminated soils, e.g. hydrocarbons and acid sulphate soils (Tonnes).

Additional

Photos

Attachments

- No file attachments

Actions Summary

ID	Due date	Date closed	Action description	Status	Last Comment
Actions					



Appendix B4 – Pre-Commencement Assessment & Meeting Record

Pre-Commencement Assessment (PCA)

Details	
Form id	123592
Created at	13/05/2020
Completed at	
Status	In Progress
Respondent	Benjamin Moss
Division	NSW
Business unit	NSW Construction
Department	
Project	Nihon University Newcastle Campus
Subcontractor	[Test/Training Subcontractor]
Score	100%

You are here because you received an email from us asking you to prepare for a pre-commencement health and safety meeting on the upcoming project. In preparation for the pre-commencement meeting we ask that you complete a questionnaire about the type of work you will be undertaking. These questions are designed to help improve our health and safety controls and also commences the important process of consultation between your organisation and Built.

The completed questionnaire will generate an agenda for the pre-commencement health and safety meeting and ensure the pre-commencement meeting is specific to the scope of works that you will be undertaking on this project.

1. Subcontractor Details

a) Proposed Key Staff

At least 1 supervisor must be listed. All above persons will be invited to the project correspondence platform as indicated below. Please ensure the details entered are correct so an account can be set up.

Name	Role	Phone	Address	Email
Test	Test	49494949	Test	test

b) What previous projects has the Supervisor supervised?

Test

List previous projects. e.g type of build (apartments, commercial building, hospital ect) and approximate value

c) What qualifications, licences or certificates of competency does the supervisor have?

Test

This would include; Accredited training in WHS/OHS, National licences, Certificate of attainments, Trade Certificates

d) Do you intend to engage secondary sub-contractors on this project?

No, we do not intend to use secondary subcontractors in our scope

Secondary Subcontractor Details (if applicable)

Company Name	Contact Name	Email	Phone	Brief description of works
--------------	--------------	-------	-------	----------------------------

Pre-Commencement Assessment (PCA)

e) Will you be working on site for more than 1 week?

Yes

f) Lead Time

List confirmed lead time on major equipment and materials

Equipment/Materials	Lead time (Weeks)
Test	7

2. Occupational/Work Health & Safety

a) High Risk Construction Work and Safe Work Method Statements

Please select the High Risk Construction Work (HRCW) that will be undertaken in your scope of work. .

HRCW is defined by the WHS Regulation or OHS Regulation in your state by the Regulator.

- ☒ involves a risk of a person falling more than 2 metres
- ☒ involves demolition of an element of a structure that is load-bearing or otherwise related to the physical integrity of the structure or (Vic/WA only) Involves demolition
- ☒ Involves removal of, or is likely to involve the disturbance of, asbestos
- ☒ involves structural alterations or repairs that require temporary support to prevent collapse
- ☒ is carried out in or near a shaft or trench with an excavated depth greater than 1.5 metres
- ☒ is carried out on or near pressurised gas distribution mains or piping,
- ☒ is carried out in an area that may have a contaminated or flammable atmosphere
- ☒ is carried out on, in or adjacent to a road, railway, or other traffic corridor
- ☒ is carried out in an area at a workplace in which there is any movement of powered mobile plant

Describe the way Built will be receiving your SWMS for review

By the simpliSWMS platform

Describe the way you will confirm that your SWMS satisfies the requirement of the WHS/OHS Regulation and Built

By the review process in the simpliSWMS platform

Please identify who your SWMS Creator will be

Test

Information required is their name, email address and phone number. Please note, a simpliSWMS invitation will be sent by the project team for your company.

Describe the steps that will be taken to consult with workers to allow them to contribute to the SWMS, including any subsequent revisions

Test

Describe the process for monitoring your workers' compliance to the SWMS.

Test

Built requires that the SWMS are monitored as soon as work commences, and regularly during the course of the project (more frequently if the risks are greater).

Pre-Commencement Assessment (PCA)

How will you manage any workers or your secondary subcontractors who are non English speaking workers?

Test

b) Hazardous Other Tasks (HOTS)

Select from the below Hazardous Other Tasks that will be performed by your workers.

- ☒ Use of concrete coring or cutting machines
- ☒ Use of fuel driven tools or equipment

How do you provide evidence of information, instruction or training for the selected Hazardous Other Tasks?

Test

This may include SOP's, Training manuals, Specialised training etc

How do you provide and record training for your workers use of hazardous substance and/or dangerous goods?

Test

This may include SOP's, specialised training, SDS Awareness courses etc

c) Drugs and Alcohol

The Built Drug and Alcohol Management Plan (DAMP) will be implemented on this project. Do you foresee any issues in the implementation of the DAMP with your workforce?

Yes. We have reviewed the DAMP and will leave comment at the bottom of this PCA with the identified issues.

To review the DAMP, follow the link identified at the bottom of this PCA

d) Health Surveillance and Monitoring

Which of the following hazards will your workers be exposed to on this project?

- ☒ None of the above

Please note that many of the below hazards are High Risk Construction Work and require a SWMS (Contaminated atmosphere)

e) Inspections

Do you agree to undertake a weekly documented inspection of your work areas in respect of your specific scope of work and provide Built with a copy of actions arising from the inspection?

Yes

f) Emergency Procedures and Injury Management

Please provide details of emergency situations your workers may become involved in that are specific to your scope of works including an outline of the training, equipment and competencies required.

Test

Pre-Commencement Assessment (PCA)

Example emergency situations include; plant roll-over, fall arrest in harness, trench collapse

Do your workers have any specialised emergency training? Where "yes" please outline.

Test

Training may include; first aid, fire extinguisher use, EWP recovery. harness recovery etc

Built will provide first aid facilities on site. In the event your worker requires further medical assessment (not requiring an ambulance), what is your process for ensuring the injured person is able to get to an off site medical facility safely?

Test

Do you have a List of Suitable Duties (LoSD) for a treating Doctor to review in the event your worker is injured on site.

Yes. We have an established LoSD for our workforce

A LoSD will allow the treating Doctor to complete an educated assessment of duties the worker may be able to perform on site if it is assessed they have the ability to. A template is available to you in this PCA below

g) Equipment and Mobile Plant

Do you intend to bring moving mobile plant to site?

Yes

What moving mobile plant will you bring to site?

☒ EWP (Elevated work platforms)
☒ Excavator or Skid steer
☒ Other

Do you have a maintenance schedule or similar for planned, routine maintenance of plant and equipment?

Yes. We have an established regime for our plant and equipment

Plant or Equipment would include; Electrical tools and leads Lasers and survey equipment Lifting gear Etc

Do you acknowledge that Boom type EWPs are required to have secondary guarding system installed before the plant is permitted on site where work is to be carried out underneath a structure?

Yes

Secondary guarding is an engineering control implemented by the supplier to prevent operators being crushed by the plant

i) Reference documents

Links to Built documents

Pre-Commencement Assessment (PCA)

HSE Requirements for Subcontractors

DAMP

DAMP (NSW Specific)

BSMS Scaffold

BSMS Electrical

BSMS Demolition

BSMS Asbestos

BSMS Formwork Reo Pour

BSMS Temporary Works

HSE-041 (Vic_WA) SWMS review HRCW

HSE-041 SWMS review HRCW

Suitable Duties Outline

Safe Work Method Statement useful links

simpliSWMS

Example SWMS

SWMS Template

SWMS Fact Sheet

3. Quality

Subcontractors engaged on Built Projects shall establish, implement and maintain a Project Specific Quality Assurance System. Subcontractors will be expected to provide completed ITP/checklists (for respective areas) as required by Built for ongoing & final inspection status, for the relevant construction phases of Superstructure, Services, Fit out, Finishes works

a) Please select all trades which apply to your scope of works

☒ None of the above

Ensure to provide all template project specific documentation for QA deliverables when completing Pre Commencement Assessment. (Documentation Uploaded to this PCA form)

Documentation Uploaded to this PCA form

c) Inspection & Test Plans, Records/Checklists

(an Example is available at request)

Pre-Commencement Assessment (PCA)

Check the below boxes (where applicable) to acknowledge agreement

- ☒ Inspection and Test Plans using a format acceptable by BUILT shall be generated for the constituent phases of the Trade Package defining
- ☒ The sequence of performing all aspects of the works (where applicable) for generation of procurement (shop drawings, submission of samples), supply of goods/materials, offsite manufacture / fabrication, site construction / installation, final / completion activities, including servicing & maintenance.
- ☒ The SC's Quality Control/Inspection points which shall include in-coming goods inspection, in-process inspection, final inspection and the responsible party or person for fulfilling the inspection activity, must be noted on the Work Flow Diagram / Inspection and Test Plan.
- ☒ Where the Subcontractor uses separately Warranted Products (ie: paint system, waterproofing) the SC shall ensure the Supplier carries out site inspections and verifies that product/system has been installed / applicated to manufacturer's recommendations
- ☒ The acceptance criteria or references to applicable procedures, specification clauses, Australian Standards etc.
- ☒ The Records/Checklists to be generated and maintained by the Subcontractor verifying compliance.
- ☒ Inspection Records/Checklists shall identify the inspection criteria to provide the objective evidence that the requirements of the project have been met. Inspection Records/Checklists shall be generated to reflect inspection and or tests to be performed at the nominated points. Inspections to be carried out should be logical and reflective of what would be normally carried out by the Subcontractor.
- ☒ Installation/Final inspection records
- ☒ Commissioning/Testing records

Where the Subcontractor uses manufacturer warranted products (e.g. paint systems, waterproofing) the Subcontractor shall ensure the manufacturer carries out site inspections and verifies that product/system has been installed / applicated to manufacturer's recommendations.

Reference Documents

PD19-18 Subcontractor Quality Plan Review Checklist

PD19-17a Subcontractor QA Plan (example)

PD19-18a Subcontractor ITP Review Template

PD19-10 Measuring Test Equipment Register

Agree

4. Sustainability

a) Green Standard

Accept

Built is committed to the use of healthy and sustainable materials across all our projects. To that end, we request a forecast of all relevant

Pre-Commencement Assessment (PCA)

materials that you or your subcontractors will use
if the project you are on's total value is over \$25
Million

b) Monthly Reporting

Please answer the below regarding monthly reporting for Sustainability

Will you be disposing of materials other than in onsite bins? No

Will you be using more than 100L of fuel on site? No

5. Finalisation

a) Subcontractor Feedback

List details below of person completing this form. All fields must be filled

Full Name	Phone Number	Email Address
Test	4949494949	Test

Please provide any feedback you would like to give Built regarding this Pre-Commencement Assessment questionnaire.

b) Built Finalisation

Built Project Staff to Complete

PCA assessed by;

This section is to be completed by Built to identify the assessor of the PCA.

Reviewed by Site Management and; Meeting Required - Safety & Quality

6. Meeting Minutes

Minutes of PCA Meeting Test

PCA Review Meeting date 13/05/2020

Additional

Photos

Attachments

- No file attachments

Actions Summary

ID	Due date	Date closed	Action description	Status	Last Comment
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Pre-Commencement Assessment (PCA)

Actions



Appendix B5 – Site Induction Record

HSE-001 Worker Registration (Part A)

Induction Sticker No.



This form supports the new software system **Built Safe** (powered by *Lucidity*) and is to be printed out and completed by workers as part of their site induction. Worker will lay out their tickets on this form and Built will take a photo of this form so that this may be recorded against Part B of the digital record of the worker's registration.

1. Worker details			
First Name:		Last Name:	
Date of Birth:		Occupation:	
First Language:		Postcode:	
Interpretation Assistance required:	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Are you of Aboriginal or Torres Strait Islander descent? Yes <input type="checkbox"/> No <input type="checkbox"/> <small>Note: the information collected enables Built to measure progress and success of our Aboriginal and Torres Strait Islander Employment Statement of Support. Information collected shall only be used and disclosed in accordance with privacy legislation.</small>			
2. General Industry Induction			
State where your induction was held (<i>White Card, Green Card</i>)	NSW: <input type="checkbox"/> Vic: <input type="checkbox"/> Qld: <input type="checkbox"/> WA: <input type="checkbox"/> ACT: <input type="checkbox"/> SA: <input type="checkbox"/> NT: <input type="checkbox"/> TAS: <input type="checkbox"/>		
	Note; Proof of General Industry Induction is required to be presented and photographed during your worker registration on site.		
3. Construction Industry Experience (tick only one of the boxes)			
Are you an Apprentice or Cadet?		Yes <input type="checkbox"/> No <input type="checkbox"/>	
Less than 1 year: <input type="checkbox"/>	2 years to 5 years: <input type="checkbox"/>	5 to 10 years: <input type="checkbox"/>	10 years plus: <input type="checkbox"/>
Trade:			
4. Employment Details			
Name of company you will be working for:			
How long have you been employed by this company:			
Are you a labour hire employee:		Yes <input type="checkbox"/> No <input type="checkbox"/>	
How long have been employed by the labour hire company:			
5. Plant Operators			
Will you be operating powered mobile plant :		Yes <input type="checkbox"/> No <input type="checkbox"/>	
6. Licences			
Do you have a licence for High Risk Work:		Yes <input type="checkbox"/> No <input type="checkbox"/>	
Do you have a trade licence:		Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Note; Proof of High Risk Work Licence and Trade Licences are required to be presented and photographed during your worker registration on site.		
7. Medical conditions			
If you have a medical condition that you wish Built to be notified of please notify the Built First Aider or Supervisor. This information will be kept in strict confidence. (Complete Built Form HSE-017 Worker Medical Emergency Information)			
8. Employer contact details in the event of a medical emergency			
Name:		Phone No.:	

Once this document has been uploaded to the Worker's record in HSE-001 Part B, this document may be filed or destroyed in a secured manner.



Appendix B6 – Site Meeting Record

Meeting

Details	
Form id	123596
Created at	13/05/2020
Completed at	13/05/2020
Status	Complete
Respondent	Benjamin Moss
Division	NSW
Business unit	NSW Construction
Department	
Project	Nihon University Newcastle Campus
Subcontractor	[Test/Training Subcontractor]
Type of Meeting	Site-Wide Address
Title of Activity, Process or Section of Work Being Reviewed	Earthworks
Built Attendance	

Built Staff and CW's
Benjamin Moss

Others in Attendance	Name	Company
	Subcontractor	
	Consultant	

Minutes of Meeting	Environmental Issues specific to groundworks
<i>Exclude any actions from this field</i>	Controls listed within CEMP and Sub-Plans
	Permits required for works
	Ongoing monitoring activities
	Upcoming High Risk Construction Works

Meeting

Additional

- Photos
- Attachments
- *No file attachments*

Actions Summary

ID	Due date	Date closed	Action description	Status	Last Comment
Actions					



Appendix B7 – Risk Workshop Record

Meeting

Details	
Form id	123519
Created at	13/05/2020
Completed at	13/05/2020
Status	Complete
Respondent	Benjamin Moss
Division	NSW
Business unit	NSW Construction
Department	
Project	Nihon University Newcastle Campus
Subcontractor	[Test/Training Subcontractor]
Type of Meeting	Risk Workshop
Built person responsible for this Risk Workshop	Benjamin Moss
<i>This person is responsible for the coordination of the stakeholders, engaging in meaningful consultation during workshop, identification of hold points, the identification of actions and permitting the activity to commence.</i>	
Title of Activity, Process or Section of Work Being Reviewed	Test Template
Built Attendance	

Built Staff and CW's
Michael Louis

Others in Attendance	Name	Company
	Test	

Risk Workshop Items Discussed	<div><input checked="" type="checkbox"/> Logistics / Deliveries</div> <div><input checked="" type="checkbox"/> Engineering (Slab loadings, Geotech)</div> <div><input checked="" type="checkbox"/> High Risk Work Licenses / Competencies</div> <div><input checked="" type="checkbox"/> Plant to be used</div> <div><input checked="" type="checkbox"/> Live services</div> <div><input checked="" type="checkbox"/> Emergency Procedures</div> <div><input checked="" type="checkbox"/> Hold points</div> <div><input checked="" type="checkbox"/> Supervision</div> <div><input checked="" type="checkbox"/> Sequence / Methodologies</div> <div><input checked="" type="checkbox"/> Quality</div> <div><input checked="" type="checkbox"/> Materials (Hazardous Subs / Dangerous Goods)</div> <div><input checked="" type="checkbox"/> Falling Objects</div> <div><input checked="" type="checkbox"/> PPE</div> <div><input checked="" type="checkbox"/> Other</div>
-------------------------------	--

Meeting

Logistics / Deliveries	Test
<i>Discuss the vehicles used Identify the path of travel Heights, weights and how many vehicles. Discuss Chain of Responsibilities such as; the securing of loads, unloading areas, lay down areas, time on the road, wide-loads</i>	
Engineering (Slab loadings, Geotech)	Test
<i>Engineering can include; Slab loading, Geo technical advice, lifting apparatus, lifting points etc Discuss the known engineering of the work area Identify any further engineering confirmations</i>	
High Risk Work Licenses / Competencies	Test
<i>Discuss the requirement for training and High Risk Work Licenses. What competencies are required for the workers completing the work and the supervision. (Refer to HSE Plan Appendix 8)</i>	
Plant to be used	Test
<i>Identify the major items of plant, their weight and size and impact on any suspended slabs or work near excavations Discuss the Vehicle Movement Plan</i>	
Live services	Test
<i>What are the services that need to be managed. How will these services be managed. Power, water, data, sewer etc</i>	
Emergency Procedures	Test
<i>Discuss the activity specific rescue procedures. What equipment is required for the emergency procedure. Who is trained to use the emergency equipment</i>	
Hold Points	Test
<i>What are the items that are to be confirmed prior to the activity commencing. What are the hold points that will stop the activity once commenced.</i>	
Supervision	Test
<i>Identify the Supervisors who will have a lead role in this activity, both subcontractors and Built. How will the Supervisors communicate this Risk Workshop to workers? How will the Supervisors monitor and record implementation of this Risk Workshop?</i>	
Sequence / Methodologies	Test
<i>Discuss the methodologies of the activity. How will stakeholders be consulted with these methodologies and sequencing</i>	

Meeting

Quality	Test
<i>What inspections are required? What confirmations are required?</i>	
Materials	Test
<i>What materials will be used? What confirmations are required before their arrival to site? What training or prevention measures are required for Haz Subs / DGs?</i>	
Falling Objects	Test
<i>Where could objects fall? What are the preventative measures? What are the mitigation measures?</i>	
PPE	Test
<i>What activity specific PPE is required. Who is trained to use the PPE</i>	
Other	Test
<i>Outline any other discussions had relating to the Risk Workshop</i>	
Minutes of Meeting	Test
<i>Exclude any actions from this field</i>	
Status of Risk Workshop	Activity ok to commence

Additional

- Photos
- Attachments
- *No file attachments*

Actions Summary

ID	Due date	Date closed	Action description	Status	Last Comment
Actions					



Appendix B8 – Environmental Incident Report

Event Report



No : 007759
Date Of Event : 13/05/2020
Location : Newcastle, Construction, Nihon Univeristy

Reported By : Benjamin Moss
Report Description : TEST_Environmental Incident Report
Event Type : Environmental Incident

1. Primary Event Type

Environmental Incident

TEST_Environmental Incident Report

2. Secondary Event Type

Visit from a Regulator (Environment)

3. External Notification Required

Was External Notification Required? Yes

Details

Client Environmental Agency

Other : Planning Secretary

Documents Uploaded

No Files uploaded

4. Location Details

Newcastle - Construction - Nihon Univeristy

Date Of Event 13/05/2020 Time of Incident : 15:10

Exact location :

5. Person/s Involved in the Event

Name	Type	Company	Contact Number
Benjamin Moss	Employee	Built	

6. Person Reporting the Event

Benjamin Moss

7. Event Reported To

Name

Benjamin Moss

Event Reported Time : 13/05/2020 3:10:00 PM

8. Witness(es) to the Event

Name	Type	Company	Contact Number
Benjamin Moss	Employee	Built	

9. Description of Event

TEST - Environmental Incident Report

- Details to be included as required by SSD-9787 Development Consent Conditions A26 & A27 including Appendix 2 as detailed within the CEMP Section 4.7.2

10. Work Classification

Other:TEST

11. Alcohol or Drugs

Was testing undertaken? : Yes

Alcohol test result: Unknown

Drug test result: Unknown

Mobile Use result: Unknown

12. Immediate Actions

TEST

- Immediate actions to make area safe and minimise impacts on the environment and/or human health and safety

- Proposed follow-up actions if known

13. Distribution List

Name	Job Title	Location
Amanda Nicolo	HSE Coordinator	Newcastle
Ben Bates	Site Manager	Nihon Univeristy
Benjamin Moss	Project Manager	Nihon Univeristy
Bill Fouteris	Safety Advisor	
Brett Mason	Managing Director	
Chloe Mitchell	Administrator	
Clare Gallagher	Sustainability Engineer	
Corey Monk	Director of Strategy and Marketing	
Doug Giffin	Regional HSE Manager North	
Jessica Mendes	HSEQ Administrator	
Joe Karten	Sustainability Manager	4 Parramatta Square
Lee Schiller	Regional HSE Manager - South	
Leif Aleksic	Site Manager	Nihon Univeristy
Liam Tamsett	Site Foreman	Nihon Univeristy
Marco Rossi	Executive Chairman	
Michael Louis	HSE Coordinator	Newcastle
Mitch Fatcher	Director	Business Unit
Paul Farrell	Director HSE	
Rob McLaughlin	Construction Manager	Nihon Univeristy
Scott Grover	HSEQ Manager	SA
Shane Marcus	HSE Manager QLD	
Stacey Karpinen	Marketing Communications Manager	
Steve Parker	Safety Advisor	
Tanya Lim	National Marketing & Communications Manager	



Appendix B9 – Site Inspection Checklist

Site Inspection

Details

Form id	123598
Created at	13/05/2020
Completed at	13/05/2020
Status	Complete
Respondent	Benjamin Moss
Division	NSW
Business unit	NSW Construction
Department	
Project	Nihon University Newcastle Campus
Subcontractor	[Test/Training Subcontractor]
Type of Site Inspection	Environmental Inspection
Built Attendance	

Include the person who is logged in as well.

Name
Benjamin Moss

Others in attendance

Subcontractor Name	Persons Name
	Subcontractor

Areas or Locations Inspected	Test
------------------------------	------

Identify the area/s reviewed during the inspection. The may include; whole of project, certain levels or certain locations.

Summary of inspection	Test
-----------------------	------

This may include; common checks, activities or items reviewed, good practices observed or general commentary of the inspection. Note; all actions need to be registered in the "Actions" area at the bottom of this page.

- Checks of control measures implemented
- Check of work activities
- Note any NCRs
- Attach photographic evidence of areas, controls and works inspected

High Potential Hazard Reporting

High Potential Classification	Trade/Process	Comments
<i>Select from the drop down list those which apply. Use the Add button to add one line per issue</i>	<i>State the trade who has been identified as being responsible for the hazard. If unknown please state 'Unknown'</i>	<i>Describe the situation that is classified as High Potential</i>
Traffic Management	Test	Test
Struck by Mobile Plant	Test	Test

Site Inspection

Contamination	Test	Test
---------------	------	------

Additional

- Photos
- Attachments
- No file attachments

Actions Summary

ID	Due date	Date closed	Action description	Status	Last Comment
----	----------	-------------	--------------------	--------	--------------

Actions



Appendix B10 – Monitoring Checklist

Monitoring

Details

Form id

123600

Created at

13/05/2020

Completed at

13/05/2020

Status

Complete

Respondent

Benjamin Moss

Division

NSW

Business unit

NSW Construction

Department

Project

Nihon University Newcastle Campus

Subcontractor

[Test/Training Subcontractor]

Monitoring Activity

SWMS Monitoring

Outline of activity being monitored

TEST
- Demolition

Documents referenced during monitoring

TEST
- SWMS 001 - Demolition
- Work Zone Permit
- Demolition Methodology
- HSE 035 - HSE Inspection Guide

This could include; SWMS, Permit, Traffic Management Plans, Methodology documents, Engineering advice, SOP/JSA. Where possible provide the exact name and version number of the document.

Summary of monitoring

TEST
- Works in accordance with SWMS 001 & Permit Conditions
- Environmental Controls implemented and being maintained
- Plant operators licenced and logbooks signed

NOTE: Attach photos/documents relevant to monitoring activity

Was work required to be stopped?

No

High Potential Hazard Reporting

High Potential Select from the drop down list those which apply. Use the Add button to add one line per issue	Trade/process State the trade who has been identified as being responsible for the hazard. If unknown please state 'Unknown'	Comments Describe the situation that is classified as High Potential
Structural	Demolition	TEST
Traffic Management	Waste Management	TEST
Struck by Mobile Plant	Demolition	TEST

Built staff in attendance

Include the person who is logged in to the software in this section as well as the other attendees

Attendee name

Benjamin Moss

Monitoring

Others in attendance

This could include workers involved in the activity, the subcontractor supervisor or others

Subcontractor name	Persons name
Subcontractor	

Additional

Photos

Attachments

- No file attachments

Actions Summary

ID	Due date	Date closed	Action description	Status	Last Comment
Actions					



Appendix B11 – Driver Code of Conduct

Driver Code of Conduct Induction Form

Project Name:	Nihon University Newcastle Campus	Project No:	201229
Supplier / Contractor: Delivery			
Contractor:			
Name of Driver:			
Vehicle Registration No:		Unit No:	
Date:			

The project is committed to providing a safe and healthy workplace. You are required to read, review and agree to comply with these conditions before signing the form.

General Industry Card

The driver must produce a General Industry Card when entering the site.

Competencies / HRCW Licence

The driver or worker must produce a competency or HRCW Licence as required.

Personal Protective Equipment (PPE)

The driver must wear a safety hard hat, steel capped boots and safety vest at all times when out of the cab.

Loading and Unloading of Trucks

Unloading must not commence until a safe unloading method is understood and agreed by both delivery and site personal.

Designated Routes

All drivers to take the designated route specified on the attached induction.

Signatures

I have read and understand the above requirements and the safety items listed overleaf. I am aware that failure to agree to comply with the site requirements may result in my removal from site.

Drivers

Signature:

Date:

I have explained these requirements and Built's standard safety requirements to the above driver and have explained and ticked the relevant boxes on the 'Driver's Basic Safety Site Induction' overleaf.

Site Personnel:

Date:

Once signed, this form must be held by the delivery driver at all times and must be presented on request.

Delivery driver basic safety site induction

This form constitutes a basic safety site induction for deliveries or pick-ups. Communicate the following safety requirements to the driver. The driver must then sign the form on the previous page, accepting that he/she has understood the site requirements for entry, unloading or loading and exiting the work site.

- ☐ The Site Workplace Safety and Health Coordinator is **Michael Louis**
- ☐ A Safety and Health Committee is established. The project intends to monitor and review the effectiveness of its control measures through the Safety & Health Committee.
- ☐ Site UHF radio channel is: (used to contact Supervisor, Foreman or Leading Hand)
- ☐ Site First Aid Officers are: **All Built Personnel**
- ☐ First aid kits are held in: **First Aid Room in Level 1 Heritage Courthouse Building**
- ☐ All accidents and incidents must be reported to site management
- ☐ All vehicles should be fitted with reverse 'quacker' alarms
- ☐ PPE is always to be worn (Safety Boots, Vest, Hard Hat)
- ☐ Emergency Procedure requires all instructions given by site staff to be obeyed. Leave site if directed to.
- ☐ Daily Pre-start (or SWMS if delivery involves high risk activities) shall encompass all delivery hazards and be communicated to persons involved with the unloading before unloading commences.
- ☐ Speed limit of **5km/h** and signage must be obeyed
- ☐ Be aware of pedestrians when entering or leaving site
- ☐ If spotter cannot be seen in the truck mirrors, do not reverse
- ☐ Watch for and avoid other construction machinery
- ☐ Park vehicle away from work areas as directed by site personnel. Do not park behind working or parked construction equipment.
- ☐ Before approaching work machinery, make eye contact with the operator
- ☐ Do not untie load until stationary at unloading point
- ☐ All loads to be covered and transported with enviro tarp, tarps are to be automatic to reduce risk of fall from height
- ☐ 'Hiab' type cranes are to be operated by certified persons. Loads to be slung by certified dogman.
- ☐ Lift chains must be fitted with safety latch lock hooks and must be stamped with current testing certification
- ☐ Lifting equipment for unloading pipes may be fitted with C type lifting clamp but must be in test period stamped on the SWL tag.
- ☐ When accessing loads to secure lifting equipment, load must be stable to allow access. Some form of fall prevention is required if load is over 2.0m above the ground.
- ☐ No load is to pass over any barricade or person
- ☐ Keep all persons out of arc of slew
- ☐ If a forklift or similar machine is used for unloading, the operator must be certified.
- ☐ Concrete trucks must wash out at designated points.
- ☐ Tip trucks must lower hoists before proceeding from dump point.
- ☐ Driver must stay within cab during loading.
- ☐ Truck/trailer combos must clean debris from draw bar before exiting site.
- ☐ When ground is muddy and/or it is raining, all vehicle wheels must be washed at designated exit points, no spoil is to exit site.
- ☐ Ensure no person is standing behind tilt tray when tilting and unloading or loading.
- ☐ Before using your mobile phone, stop work or stop vehicle, park in safe position and then make or take call.
- ☐ Drivers are to respect the local community incl. no idling in front of homes, no littering, approved hours



Appendix B12 – Daily Truck Log



NIHON UNIVERSITY – TRUCK LOG

[illegible]



Appendix B13 – Daily Traffic Control Inspection Checklist

DAILY TRAFFIC & PEDESTRIAN CONTROL CHECKLIST



Qualified Traffic Controller:							
TCP Reference:							
Checklist Items: <ul style="list-style-type: none"> Traffic Control signage placement and type is in accordance with approved TCP's Protective barricades in place (where applicable) Signage is secured to prevent accidental movement e.g. blown over in strong winds Signage has not been damaged, tampered with and is not obstructed from view e.g. by vehicles Traffic Control personnel are equipped with appropriate PPE Footpaths free and clear of debris and trip hazards for safe access Work zone, access driveways, and roads free of debris from vehicles/plant Vehicles/plant parked within Work Zone have engines switched off where applicable Access gates closed and monitored (opened only for vehicle ingress/egress) NOTIFY BUILT SITE MANAGEMENT IF ANY IMMEDIATE CONCERNS / ISSUES 							
DATE OF WEEK COMMENCING:	MON	TUES	WED	THUR	FRI	SAT	SUN
Set Up Time:							
<i>Tick Inspection Time</i>							
07:00							
08:00							
09:00							
10:00							
11:00							
12:00							
13:00							
14:00							
15:00							
16:00							
17:00							
18:00							
Removal Time:							
Footpath / Wok Zone / Access Inspections	AM (time)						
	PM (time)						
Comments / Issues:							
Mon							
Tue							
Wed							
Thu							
Fri							
Sat							
Sun							



Appendix B14 – Plant Inspection Checklist

Plant Inspection

Details

Form id	120478
Created at	01/05/2020
Completed at	01/05/2020
Status	Complete
Respondent	Michael Louis
Division	NSW
Business unit	NSW Construction
Department	
Project	Nihon University Newcastle Campus
Subcontractor	ALORRA PILING PTY LTD
Plant Type	Other
Make and model of plant	Piling Rig IMT A215CW

Example; Komatsu 30t. JLG 30ft. Putzmeister 45m

Plant Identification Number 254

This is the asset number or serial number specific to this item of plant and can be found on the compliance plate or other identifying area.

Built Identification number 42

This is the number on the top of the Blue Sticker that will be issued to the plant once it has satisfied all areas of the inspection.

Contact details of the person responsible for the plant Dean Bettin

Insert the person responsible for scheduling the plant maintenance, and authorising those who are allowed to operate the plant on site)

Date of last service or inspection 24/04/2020

This may be found on the pre-delivery inspection report or maintenance report. Note; This must not exceed the periods specified in the Manufacturers Instructions

Approximate date of next service 01/06/2020

This may be found on the pre-delivery inspection report or maintenance report. Note; This must not exceed the periods specified in the Manufacturers Instructions

General inspection items ☒ No visible oil leaks

Items to be reviewed and photographed during the inspection ☒ Operators manual
☒ Last service report
Select these items as they are recorded ☒ Plant risk assessment
☒ Operators inspection log book

Plant Inspection

Status of plant

Registered and on site

Plant Inspection

Additional

Photos



Plant Inspection



Attachments

- A215 Daily Log Book Record.pdf
- ALO-043 - NDT Annual 20200423.pdf
- IMT Drilling Rig PHA.doc
- IMT 200221 Minor Repair 660hr.pdf
- IMT 200421 Service 1000hr.pdf
- IMT A215 Service history.docx
- Main Rope Cert ULE26691.pdf
- Plant Risk Assessment.doc

Actions Summary

ID	Due date	Date closed	Action description	Status	Last Comment
Actions					



Appendix B15 – Noise Level Spot Check Record

Noise Level Spot Check Report**Date:****Assessor Name and Position:****People Present:****Equipment Used: QM 1598****Calibration Date: 15/04/20****Area/location and time/duration of noise monitoring:****Sources of noise (including background noise):****Sensitive Receivers (prior complaints and reports):****Is this monitoring being conducted as a result of a complaint? If yes, provide brief details:****Results:**

DB Level Range (min – max)	Duration of Monitoring	Location

Noise Assessment Report Summary:**(Attach Photos of Monitoring Locations & Readings)**

BASELINE CONSTRUCTION NOISE DATA & CRITERIA

Table 4 Attended noise monitoring summary

Location	Date	Start Time	Period ¹	L _{Aeq}	L _{A90} (RBL)	L _{Amax}	Comments
L1 Corner of Bolton & Church Streets	17/4/19	11:52	Day (7am – 6pm)	58	49	80	Urban hum (nearby fans, pumps, etc.) and distant traffic noise consistent. Car passbys frequent. Bird noise, aircraft noise, pedestrian noise and wind in trees occasionally.
	17/4/19	21:45	Evening (6pm – 10pm)	56	45	75	Urban hum (nearby fans, pumps, etc.) and insects consistent. Distant traffic, car passbys and nearby hotel noise frequent. Resident noise, pedestrian noise and dog barking occasionally.
	17/4/19	22:15	Night (10pm – 7am)	55	45	71	Urban hum (nearby fans, pumps, etc.) and insects consistent. Distant traffic and car passbys frequent. Pedestrian noise occasionally.

Table 5 Noise management levels for residential land use

Time of day	NML, L _{Aeq} 15min	Notes
Recommended Standard Hours: Monday to Friday 7:00am to 6:00pm Saturday 8:00am to 1:00pm No work on Sundays or public holidays	Noise affected: RBL + 10 dB(A)	<p>May be some community reaction to noise.</p> <ul style="list-style-type: none"> Where the predicted or measured construction noise level exceeds the noise affected level, all feasible and reasonable work practices should be applied to meet the noise affected level. All residents potentially impacted by the works should be informed of the nature of the works.

Time of day	NML, L _{Aeq} 15min	Notes
		the expected noise levels, and duration, and provided with site contact details.
	Highly noise affected: 75 dB(A)	<p>May be a strong community reaction to noise.</p> <ul style="list-style-type: none"> Where construction noise is predicted or measured to be above this level, the relevant authority may require respite periods that restrict the hours that the very noisy activities can occur. Respite activities would be determined considering times identified by the community when they are less sensitive to noise, and if the community is prepared to accept a longer period of construction to accommodate respite periods.
Outside recommended Standard Hours	Noise affected: RBL - 10 dB(A)	<ul style="list-style-type: none"> A strong justification would typically be required for works outside the recommended standard hours. The proponent should apply all feasible and reasonable work practices to meet the affected noise level. Where all feasible and reasonable practices have been applied and noise is more than RBL - 10 dB(A) above the affected noise level, the proponent should negotiate with the affected community.

Table 12 Construction noise source power levels

Equipment	Quantity (worst case per 15-min period)	Sound power level per item, L _{Aeq} 15 minute (dB) ¹
Demolition, earthworks & piling		
Piling rig	1	116
Excavator including rock-hammer	1	120
Excavator	2	105
Compactor	1	106
Dozer	1	108
Roller (up to 20T)	1	107
Truck & Dog	2	104
Structural works		
Concrete trucks	3	108
Concrete pump	1	110
Crane	1	99
Delivery truck	1	106
Power tools	4	105
Hand tools	Numerous	102
Internal fit-out and civil works		
Concrete trucks	3	108
Crane	1	99
Delivery truck	1	106
Hand tools	Numerous	102
Generator	1	99

Table 13 Construction noise predictions

Representative Receiver	Distance	Indicative predicted noise level L _{Aeq} 15 minute	Construction noise goal L _{Aeq} 15 minute
Nearest residences (to north)	20-105m	Demolition and earthworks 74-88 dB Structural works 66-81 dB Internal fit-out and civil works 66-80 dB	Noise affected: 59 dB (Recommended standard hours) Highly noise affected: 75 dB
Commercial / Offices	5-105m	Demolition and earthworks 74-100 dB Structural works 66-93 dB Internal fit-out and civil works 66-92 dB	70 dB (when in use)
Hospitals	5-105m	Demolition and earthworks 74-100 dB Structural works 66-93 dB Internal fit-out and civil works 66-92 dB	55 dB (when in use)



Appendix 16 – Non-Conformance Report

Event Report



No :	007759	Reported By :	Benjamin Moss
Date Of Event :	13/05/2020	Report Description :	TEST_Non-Conformance Record_Regulatory Breach (Environmental)
Location :	Newcastle, Construction, Nihon Univeristy	Event Type :	HSE Non-conformance Consultation Record

1. Primary Event Type

HSE Non-conformance Consultation Record

TEST_Non-Conformance Record_Regulatory Breach (Environmental)

2. Secondary Event Type

Regulatory Breach Notice (Environment)

3. External Notification Required

Was External Notification Required? Yes

Details

Client Environmental Agency

Other : Planning Secretary

Documents Uploaded

No Files uploaded

4. Location Details

Newcastle - Construction - Nihon Univeristy

Date Of Event 13/05/2020 Time of Incident : 15:10

Exact location :

5. Person/s Involved in the Event

Name	Type	Company	Contact Number
Benjamin Moss	Employee	Built	

6. Person Reporting the Event

Benjamin Moss

7. Event Reported To

Name

Benjamin Moss

Event Reported Time : 13/05/2020 3:10:00 PM

8. Witness(es) to the Event

Name	Type	Company	Contact Number
Benjamin Moss	Employee	Built	

9. Description of Event

TEST

- Include all details of the NCR as required by SSD-9787 Development Consent Conditions A28 & A29.
- Include all details of the Non-Compliance as required by Built's HSE Plan and CEMP Section 12.3

10. Work Classification

Other:TEST

11. Alcohol or Drugs

Was testing undertaken? : Yes

Alcohol test result: Unknown

Drug test result: Unknown

Mobile Use result: Unknown

12. Immediate Actions

TEST

- Immediate actions undertaken to mitigate any further or potential impacts to the environment and/or health and safety of people
- Proposed follow-up actions and details if known
- Provide any additional information required by Authorities or Stakeholders.

13. Distribution List

Name	Job Title	Location
Amanda Nicolo	HSE Coordinator	Newcastle
Ben Bates	Site Manager	Nihon Univeristy
Benjamin Moss	Project Manager	Nihon Univeristy
Bill Fousteris	Safety Advisor	
Chloe Mitchell	Administrator	
Doug Giffin	Regional HSE Manager North	
Jessica Mendes	HSEQ Administrator	
Joe Karten	Sustainability Manager	4 Parramatta Square
Lee Schiller	Regional HSE Manager - South	
Leif Aleksic	Site Manager	Nihon Univeristy
Liam Tamsett	Site Foreman	Nihon Univeristy
Michael Louis	HSE Coordinator	Newcastle
Paul Farrell	Director HSE	
Rob McLaughlin	Construction Manager	Nihon Univeristy
Scott Grover	HSEQ Manager	SA
Shane Marcus	HSE Manager QLD	
Stacey Karppinen	Marketing Communications Manager	
Steve Parker	Safety Advisor	



Appendix 17 – NCR Corrective Actions Report

Non-Conformance Report

Details

Form id	123473
Created at	13/05/2020
Completed at	13/05/2020
Status	Complete
Respondent	Benjamin Moss
Division	NSW
Business unit	NSW Construction
Department	
Project	Nihon University Newcastle Campus
Subcontractor	[Test/Training Subcontractor]
Category	Subcontractor

Select a category based on the following: - Subcontractor (for Project Teams) - Consultant (for Project Teams) - Internal Audit Project (for Quality Team) - Internal Audit Regional office (for Quality Team)

Trade	Demolition
Type	Poor procedure
Date Issued	13/05/2020
Status	Issued
Description	TEST - NCR regarding breach of environmental controls

Describe the details of the non-conformance. Files and photos can be uploaded at the end of the form as attachments if necessary.

Corrective Actions	TEST: Implement required controls as documented. Review Management Plans & SWMS and communicate changes to workers.
--------------------	---

Describe what action needs to be taken in order to correct the non-conformance. Specific actions can be raised and assigned to individuals at the end of the form.

Preventative Actions	TEST: Consult with workers and ensure environmental controls are implemented prior to commencing works
----------------------	--

Describe what preventative actions could be taken in order to prevent the non-conformance from re-occurring. These can provide lessons learned for other projects.

Date Disputed

Closeout Details	Actions completed as instructed. Evidence attached to this NCR Form
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Describe what actions were taken to close out this non-conformance.

Closeout Date	13/05/2020
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The date when the non-conformance was closed out.

Non-Conformance Report

Additional

Photos

Attachments

- Appendix B18_NCR Rapid.pdf

Actions Summary

ID	Due date	Date closed	Action description	Status	Last Comment
33674	14/05/2020		Implement environmental controls	Open	

Actions

ID: 33674

Actionee: Benjamin Moss

Action description: Implement environmental controls

Due date: 2020-05-14

Date closed:

Status: Open

Attachments

- No file attachments
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