

Construction Compliance Report #1 SSD 7894

Project Details						
Project Name:	Chau Chak Wing Mu	seum				
Project Number:	250048					
Project Location:	F21 Chau Chak Wing Museum, Sydney University, University Avenue, Camperdown Campus					
Client:	The University of Syd	dney				
Project Manager:						
Senior Project Manager:	Branko Mihaljevic					
Date of Commencement:	07 June 2018					
Estimated duration of work	23 Months					
Name of principal contractor:	FDC Construction (NSW) Pty Ltd				
Company address:	22 - 24 Junction Stre	et Forest Lodg	je NSW 2037			
ABN:	72608609427					
Approvals						
Project Manager:		Signature:		Date:		
Senior Project Manager:	Branko Mihaljevic	Signature:	dio agus	Date:	04/12/18	
Project Director		Signature:		Date:		
General Manager:		Signature:		Date:		
Divisional IMS Manager:		Signature:		Date:		
Distribution:	Client, Principal, Sup	erintendent, De	epartment of Planning 8	& Enviro	nment	
Management Plan Revision:						



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1 Introduction:

The purpose of this report is to provide details of the compliance performance of the Chau Chak Wing Museum SSD 7894 in line with development conditions C33 and C34.

2 Summary, Analysis and Actions of Independent Environmental Monitoring:

FDC have engaged NGH Environmental as the independent environmental auditor for the project in line with conditions B34, B35 and B36.

In line with condition B34, NGH Environmental have prepared a program of independent environmental audits for the project, with the scope outlined below.

- Description of works
- Roles and competencies
- Audit scope
- Objectives and methods of auditing
- Audit Frequency

The full audit program is attached to this document in appendix 1.

NGH Environmental have completed two audits to date on the project, which were undertaken on the 25/02/18 and 05/09/18 respectively. The full findings for audits 1 & 2 are available in appendices 2 and 4.

In line with the development consent conditions for the project, FDC prepared and submitted two corrective action plans outlining responses to non-conformances and recommendations and the timeline to close items out. Please refer to appendices 3 and 5 for the full corrective action plans.

3 Summary of Complaints:

FDC have received 1 complaint to date on the project.

This was received on the 10/08/18, the complaint was in regards to FDC's traffic management and that the traffic controller's baton's always being on "stop" and the inconvenience of having to slow down/stop on University Avenue.

Please refer to appendix 7, which outlines the complaint and also FDC's response. In summary, FDC outlined that the traffic management plan is a result of the blind corner created due to site constraints, and also why the batons are on "stop".

4 Amendments to FDC Environmental Management Plan

The current revision of the Environmental Management Plan is revision E. Please see below summary of changes in the document:

- Revision C Changes: Updated in line with recommendations made in Independent Environmental Audit #1 document was updated to include appendices.
- Revision D Changes: Updated in line with recommendations made by the project sustainability consultant to outline the recycling targets of the project.
- Revision E Changes: Updated in line with recommendations made in Independent Environmental Audit #2, appendix 7 unexpected finds protocol was attached.

Please refer to appendix 8 revision E of FDC's Environmental Management Plan

5 Summary of Incidents

There have been no incidents notified to date on the project.

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6 Appendix 1: Chau Chak Wing Museum Audit Program

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24 April 2018

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RE - Audit Plan for the Chau Chak Wing Museum

In accordance with the Development Consent conditions for SSD 7894:

Independent Environmental Audit

B34. No later than one month before the commencement of construction works or within another timeframe agreed with the Secretary, a program of independent environmental audits must be prepared for the development in accordance with the latest version of AS/NZS ISO 19011-2014: Guidelines for Auditing Management Systems (Standards Australia, 2014) and submitted to the Secretary for information.

B35. The scope of each audit must be defined in the program. The program must ensure that environmental performance of the development in relation to each compliance requirement that forms the audit scope is assessed at least once in each audit cycle.

B36. The environmental audit program prepared and submitted to the Secretary in accordance with conditions B35 and B36 above must be implemented and complied with for the duration of the development.

The following pages details the NGH Environmental Audit program for the Proposed construction at the Chau Chak Wing Museum, Sydney University.

Yours sincerely,

Your name

Natascha Arens

Director

Exemplar Global Principal environmental auditor

2 AUDIT PROGRAM

2.1 DESCRIPTION OF WORKS

The new Chau Chak Wing Museum (CCWM) will comprise of a new 5 level building with 3 levels above ground. It will be located in the North Eastern Sector of the Camperdown Campus at the location of the existing tennis courts adjacent the Quadrangle Building.

The new building consolidates the current Macleay and Nicholson Museums, the University Art Gallery and associated cultural and scientific collections which will transform their use and integrate them into a new purpose built museum facility.

It will support cultural and scientific enquiry and provide a new benchmark for integrated cross-disciplinary teaching and learning through exhibitions and museum collections alongside study rooms, collections and conservation, shop and a cafe. The CCWM will become the focal point for University-wide cultural outreach.

2.2 ROLES AND COMPETENCE

Natascha Arens will conduct the audits. Natascha is an exemplar Global Certified Principal Environmental auditor with around 25 years professional experience as an environmental professional. It is proposed that Natascha Arens undertake all audits for the project.

2.3 AUDIT SCOPE

The audit scope will include all conditions as listed in Schedule 2 of the Development Consent conditions for SSD 7894

2.4 OBJECTIVES AND METHODS

The objectives of the audit are to ensure compliance with the conditions of consent as contained within Development Consent conditions for SSD 7894 and to assesses the environmental performance of the development, and its effects on the surrounding environment including the community.

It is proposed that a preliminary document review of all relevant documents including the CEMP and all sub plans and other relevant procedures and documents as required by the conditions of consent. The review would be undertaken prior to any construction works and would form the basis for the checklist to be used to audit compliance throughout the construction period.

The methods for each audit would include:

- Opening meeting defining the scope for the audit
- Site inspection and audit of site environmental controls
- Document review
- Interviews with staff
- Closing meeting detailing all non conformances
- The audit report would be provided to the construction contractor within 10 days of the site audit

2.5 AUDIT FREQUENCY

It is proposed that audits are planned quarterly with an initial audit to be undertaken prior to the commencement of construction. The audit schedule would be as follows.

Schedule	scope				
Audit 1 prior to construction	All requirements of the conditions of consent B1 – B33 including a review of the CEMP and associated subplans against the DA Consent and other relevant documents and standards. This initial audit will inform the construction audits in that a checklist will be developed, detailing all auditable ongoing construction commitments in the plans and DA consent				
Audit 2 (month 3)	 Follow up of previous audit findings Implementation of the CEMP, sub plans and other procedures on site to check for adequacy of plans in managing environmental impacts and staff and contractors knowledge of their responsibilities in relation to the plans Site inspection Staff interviews Document and record review 				
Audit 3 (Month 6)	 Follow up of previous audit findings Implementation of CEMP, sub plans and other procedures Review of monitoring results Review of project records Review of complaints management system 				
Audit 4 (Month 9)	As above				
Audit 5 (Month 12)	As above				
Audit 6 (Month 15)	As above				
Audit 7 (Month 18)	 As above; and Commence audit of preparation for occupation including review of relevant requirements of Part D of the DA consent conditions 				
Audit 8 (Month 21)	Review of requirements for project hand over and site shut down				

A formal audit schedule will be prepared once the construction commencement date is confirmed. The audit schedule will be updated as required in line with the construction period and works program.

2.6 MONITORING AND REVIEW AND IMPROVEMENT OF THE AUDIT PROGRAM

The audit program will be monitored, to ensure audit frequencies are maintained and adequate, evaluate feedback form management on the audit program and review audit findings. The monitoring process may result in changes to the audit program. The audit program is a live document and will be modified as required in response to either the audit findings or other changes to the project, the management system, or legislations changes.

The audit program will be reviewed regularly. The review would consider:

- Results and trends of audit findings
- Changing needs of the client and or regulatory bodies
- Alternative or new audit methods



7 Appendix 2: NGH Environmental Independent Environmental Audit #1

Project: 250048 Chau Chak Wing Museum Revised 19/09/18



Audit Report

ENVIRONMENTAL AUDIT REPORT
CHAU CHAK WING MUSEUM – SYDNEY UNIVERSITY

JUNE 2018



1 INTRODUCTION

1.1 BACKGROUND

FDC construction (FDC) has been contracted by the University of Sydney to construct the Chau Chak Wing Museum(CCWM), University Avenue, Camperdown Campus. The project requirements are as set out in the Principals Project Requirements (PPR) Rev 2 September 2017.

FDC have engaged NGH Environmental to conduct independent quarterly audits of the project. The audit scope include the requirements of the SSD 7894 Development consent, the Environmental Management Plan Rev A and associated sub plans.

This report details the results of the pre-construction inspection and audit. The findings of the audit are summarised in Section 2 and recommendations are made in Section 3. Appendix A includes a checklist of all compliance requirements for the project.

1.2 AUDIT SCOPE

An Audit of the compliance of the environmental management plans against the requirements of the SSD consent conditions was undertaken. A checklist was developed detailing all consent conditions and commitments in the environmental plans. As this was the first audit the audit consisted of an extensive document review that was undertaken over a three week period from the 25/5/18 to the 15/6/18. The following documents were reviewed:

- SSD 7894 development consent
- CCWM PPR
- Design drawing (TE-AR-JPW 2000-2003)
- FDC Construction programme Rev K
- CCWM staging Diagrams 22012018
- FDC CCWM initial site establishment diagram
- CCWM 2D site establishment and traffic Diagram
- Arboricultural impact assessment (Aborsafe 12 May 2017)
- Pre clearance survey (ecologists report) AMBS (April 2018)
- CCWM FDC Noise and Vibration management Plan Rev B
- CCWM Environmental Management plan Rev A
- Waste Management Plan Rev A
- Crown certificate #1 8/6/17
- Dilapidation reports (Cardno May 18)
- Communication and stakeholder management plan Rev B 3/5/18
- Complaints and Enquiries register
- Letter confirmation of works commencement dated 18/5/18
- Pre construction compliance letter dated 6/6/18
- ESCP dated 8/6/18
- Construction Traffic Management Plan Rev 2 17 May 2018
- Email dated June 8 2018 to compliance@planning.nsw.gov.au showing evidence of submission of pre construction compliance report.



The focus of this audit was to check compliance of the project and the EMP and sub plans with the administrative conditions and preconstruction conditions of the SSD 7894. Implementation of the EMP and sub plans was not audited as construction had not substantially commenced.

2 DETAILS OF THE SITE AUDIT

2.1 SITE INSPECTION

A site inspection and start up meeting was conducted on 25/05/2018 by Natascha Arens (Environmental Auditor), Harry Moate (Cadet, FDC Construction) and Garrett Cassettari (FDC Construction).

The purpose of site visit was to view the site and access arrangements, gain an understanding of the scope of the works and exchange documentation for the initial pre construction audit of the project. Aside from the erection of hoarding and placement of demountable site offices, no works had commenced on site at the time of the site inspection.

2.2 PREVIOUS AUDIT FINDINGS

This is the first audit and therefore there are no previous audit findings.

2.3 CURRENT AUDIT FINDINGS – SUMMARY

The audit found that FDC was compliant with a vast majority of the conditions of approval relevant to the stage of works. A total of three non compliances were found as a result of the audit. It is noted that the for B20, FDC was mostly compliant with the condition and it was only a small part of the condition that had not been fully achieved. Non compliances with B26 and C28 relate to a minor update to an otherwise compliant consultation plan and public provision of information on a website.

The table below summarises non compliances.

Reference	Requirement	Compliance Status	Action Required	Comments
B20	Prior to the commencement of works, a Construction Noise and Vibration Management Plan (CNVMP) must be submitted for the approval of the Certifying Authority. The CNVMP must address, but not be limited to, the following matters where relevant: i) be prepared by a suitably qualified expert; ii) be prepared in consultation with Council and all noise sensitive receivers where noise levels exceed the construction noise management level, in accordance with EPA guidelines; iii) describe the measures that would be implemented to ensure: i. best management practice is being employed; ii. compliance with the relevant conditions of this consent; iv) describe the proposed noise and vibration management measures in detail; v) include strategies that have been developed to address impacts to noise sensitive receivers where	NC	FDC to provide evidence that the NVMP was prepared in consultation with council It is suggested that the NVMP links to the auditing requirements in the CEMP, to satisfy the requirement of point vii) of B20. It is also recommended that noise monitoring occurs to test compliance	





Reference	Requirement	Compliance Status	Action Required	Comments
	noise levels exceed the construction noise management level, for managing high noise generating works; vi) describe the consultation undertaken to develop the strategies in v) above; vii) evaluates and reports on the effectiveness of the noise and vibration management measures; and viii) include a complaints management system that would be implemented for the duration of the construction works. b) The Applicant must submit a copy of the CNVMP to the Department and Council prior to commencement of work.		with the construction noise goals	
B26	Prior to the commencement of construction works, or as otherwise agreed by the Secretary, the following must be made available for community enquiries and complaints for the duration of construction: a) a toll-free 24 hour telephone number(s) on which complaints and enquiries about the carrying out of any works may be registered; b) a postal address to which written complaints and enquires may be sent; and c) an email address to which electronic complaints and enquiries may be transmitted.	NC	FDC update the CSMP to include the contact details as required by this condition	A communication and stakeholder management plan has been prepared however it does not include details of • 24 hr toll free number • Postal address for complaints • Email address for complaints It was noted at the site inspection that signage on the hoarding included a contact number. It is also noted that 24 hr contacts are included in Section 1.2 of the CEMP
C28	At least 48 hours before the commencement of construction until the completion of all works under this consent, or such other time as agreed by the Secretary, the Applicant must: a) make the following information and documents (as they are prepared, obtained or approved) publicly available on its website: i) the documents referred to in condition A2 of this consent; ii) all current statutory approvals for the development; iii) all approved strategies, plans and programs required under the conditions of this consent; iv) regular reporting on the environmental performance of the development in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent; v) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; vi) a summary of the current stage and progress of the development;	NC	FDC to provide link to where to the website with the information detailed in C28	This information was not found to be publicly available at the time of the audit.



Reference	Requirement	Compliance Status	Action Required	Comments
	vii) contact details to enquire about the development or to make a complaint; viii) a complaints register, updated monthly;			
	ix) audit reports prepared as part of any independent environmental audit of the development and the Applicant's response to the recommendations in any audit report;			
	x) any other matter required by the Secretary; and			
	b) keep such information up to date, to the satisfaction of the Secretary.			
	Note: This condition does not require any confidential information to be made available to the public.			

3 RECOMMENDATIONS

The table below summarises the recommendations made as a result of this audit.

Recommendation #	Recommendation
June 2018/01	As required by COA B 8 vii) FDC to provide CEMP Appendix 7 Unexpected find protocol
June 2018/02	As required by B20 FDC to provide evidence that the NVMP was prepared in consultation with council.
	It is further recommended that the NVMP links to the auditing requirements in the CEMP, to satisfy the requirement of point vii) of COA B20. It is also recommended that noise monitoring occurs to test compliance with the construction noise goals.
June 2018/03	As required by COA B22 (c) FDC to notify RMS TMC of haul routes prior to removing spoil /waste from site.
June 2018/04	FDC update the CSMP to include the contact details as required by COA B26
June 2018/05	It is a requirement of COA C28 that the following information be publicly available on a website:
	i) the documents referred to in condition A2 of this consent;
	ii) all current statutory approvals for the development;
	iii) all approved strategies, plans and programs required under the conditions of this consent;
	iv) regular reporting on the environmental performance of the development in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent;
	v) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;
	vi) a summary of the current stage and progress of the development;



Recommendation #	Recommendation			
	vii) contact details to enquire about the development or to make a complaint;			
	viii) a complaints register, updated monthly;			
	ix) audit reports prepared as part of any independent environmental audit of the development and the Applicant's response to the recommendations in any audit report;			
	x) any other matter required by the Secretary; and			
	b) keep such information up to date, to the satisfaction of the Secretary.			
	Note: This condition does not require any confidential information to be made available to the public.			
	FDC to provide (or Sydney University to update their website) to include links and/or the information detailed above.			



APPENDIX A AUDIT PROTOCOL/CHECKLIST

The compliance status for each requirement or commitment has been assessed in accordance with the criteria in Table 1 (DPE 2015).

Table 1 - Compliance assessment criteria

Assessment	Criteria
Compliant (C)	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit.
Not verified (NV)	Where the auditor has not been able to collect sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit. In the absence of sufficient verification the auditor may in some instances be able to verify by other means (visual inspection, personal communication, etc.) that a requirement has been met. In such a situation, the requirement should still be assessed as not verified. However, the auditor could note in the report that they have no reasons to believe that the operation is non-compliant with that requirement.
Non-compliant (NC)	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent of one or more specific elements of the regulatory approval have not been complied with within the scope of the audit.
Administrative non-compliance (ANC)	A technical non-compliance with a regulatory approval that would not impact on performance and that is considered minor in nature (e.g. report submitted but not on the due date, failed monitor or late monitoring session). This would not apply to performance-related aspects (e.g. exceedance of a noise limit) or where a requirement had not been met at all (e.g. noise management plan not prepared and submitted for approval).
Not triggered (NT)	A regulatory approval requirement has an activation or timing trigger that had not been met at the time of the audit inspection, therefore a determination of compliance could not be made.
Observation (O)	Observations are recorded where the audit identified issues of concern which do not strictly relate to the scope of the audit or assessment of compliance. Further observations are considered to be indicators of potential non-compliances or areas where performance may be improved.
Note	A statement or fact, where no assessment of compliance is required.

In addition, where a particular condition was not audited as it is outside of the scope of this particular audit the code not applicable (NA) has been used.



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
SSD 7984 conse	nt requirements 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.	ALL	NT		Construction has not yet commenced and therefore this requirement has not been triggered
	The development may only be carried out: a) in compliance with the conditions of this consent; b) in accordance with all written directions of the Secretary;				
A2	c) generally in accordance with the EIS as amended by the (response to Submissions) RtS and RtS Supplementary Information; and d) in accordance with the approved plans in the table below (refer to SSD 7984)	ALL	Note		All conditions relevant to the preconstruction stage of works have found to be compliant
	Consistent with the requirements in this consent, the Secretary may make written directions to the Applicant in relation to: a) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the Secretary; and				
	b) the implementation of any actions or measures contained in any such document referred to in (a) above. The conditions of this consent and directions of the Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document listed in condition A2(c) or A2(d). In the event of an inconsistency, ambiguity or conflict between any of the documents listed in condition A2(c) and A2(d), the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.				
	Note: For the purposes of this condition, there will be an inconsistency between documents if it is not possible to comply with both documents, or in the case of a condition of consent or				
A3	direction of the Secretary,	ALL	Note		



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	and a document, if it is not possible to comply with both the condition or direction, and the document.				
A4	If there is any inconsistency between the plans and documentation referred to above the most recent document shall prevail to the extent of the inconsistency. However, conditions of this consent prevail to the extent of any inconsistency. Where there is an inconsistency between approved elevations and plans, the elevations prevail.	ALL	Note		
A5	In order to ensure the design quality excellence of the development is retained: a) the design architect (Johnson Pilton Walker) is to have direct involvement in the design documentation, contract documentation and construction stages of the project; b) the design architect is to have full access to the site and is to be authorised by the Applicant to respond directly to the consent authority where information or clarification is required in the resolution of the design issues throughout the life of the project; and c) evidence of the design architect's commission is to be provided to the Secretary prior to certification of any building works, except for site preparatory works.	ALL	NA		The scope of this first audit is primarily to check the compliance of the conditions of approval relevant to this stage of works and Environmental management plans and sub plans with this approval. A5 was not audited.
A6	The design architect for the project must not change without prior approval of the Secretary.	ALL	NA		The scope of this first audit is primarily to check the compliance of the Environmental management plans and sub plans with this approval. A6 was not audited.
A7	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 approval; and b) provide details of the consultation undertaken including: i) a description of how matters raised by those consulted have been resolved to the satisfaction of both the Applicant and the party consulted; and ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.	ALL	Note		
A8	This consent will lapse five years from the date of consent unless the works associated with the development have physically commenced.	ALL	Note		



A-II

Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
A9	The Applicant must comply with all relevant prescribed conditions of development consent under Part 6, Division 8A of the EP&A Regulation.	ALL	Note		
A10	In the event of a dispute between the Applicant and a public authority, in relation to an applicable requirement in this approval or relevant matter relating to the Development, either party may refer the matter to the Secretary for resolution. The Secretary's resolution of the matter shall be binding on the parties.	ALL			
A11	For work costing \$25,000 or more, a Long Service Levy must be paid. For further information please contact the Long Service Payments Corporation Helpline on 131 441.	ALL	С		A copy of the Long Service Levy receipt was provided for the audit. Receipt no 0033544, providing evidence that the sum of \$130,310 was paid to the DPE dated 15.5.2018.
A12	Any advice or notice to the consent authority shall be served on the Secretary.	ALL	Note		
A13	Within three months of: a) the submission of a compliance report under conditions of this consent; b) the submission of an incident report under conditions of this consent; c) the submission of an Independent Environmental Audit under conditions of this consent; d) the approval of any modification to the conditions of this consent; or e) the issue of a direction of the Secretary under condition A3, the strategies, plans and programs required under this consent must be reviewed, and the Department must be notified in writing that a review is being carried out.	ALL	NT		
A14	If necessary to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised and submitted: a) to the Secretary's satisfaction if previously approved by the Secretary; or b) to the Secretary for information. Where revisions are required, the revised document must be submitted to the Secretary within six weeks of the review. Note: This is to ensure the strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.	AL	NT		



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
A15	The Department must be notified in writing to compliance@planning.nsw.gov.au within 24 hours 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.	ALL	NT		Included in 3.8.2 of the CEMP
	a) A written incident notification must also be emailed to the Department 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 forms the view that an incident has not occurred. b) Written notification of an incident must: i) identify the development and application number; ii) provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident); iii) identify how the incident was detected; iv) identify when the Applicant became aware of the incident; v) identify any actual or potential non-compliance with conditions of consent; vi) describe what immediate steps were taken in relation to the incident; and				
A16	viii) identify a project contact for further communication regarding the incident.	ALL	NT		Included in 3.8.2 of the CEMP
	a) Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Secretary, the Applicant must provide the Secretary and any relevant public authorities (as determined by the Secretary) with a detailed report on the incident addressing all requirements for such reporting set out in A15(b), and such further reports as may be requested.				
	b) The Incident Report must include:				
	i) a summary of the incident;				
	ii) outcomes of an incident investigation, including identification of the cause/s of the incident;				
	iii) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and				
A 17	iv) details of any communication with other stakeholders regarding the incident.	ALL	NT		Included in 3.8.2 of the CEMP



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
A18	The Department must be notified in writing to compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of any non-compliance. The Certifying Authority must also notify the Department in writing to compliance@planning.nsw.gov.au within seven days after they identify any noncompliance.	ALL	NT		Included in 3.8.2 of the CEMP
A19	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.	ALL	NT		Included in 3.8.2 of the CEMP
	Any condition of this 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 2B of Part 6 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification and independent environmental auditing.				
A20	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.	ALL	Note		
	References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.				
A21	However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.	ALL	Note		
SSD 7984 consen	nt requirements PART B Prior to Commencement of Works	1	I		
	The Department, Certifying Authority and Council must be notified in writing of the dates of commencement of physical work and operation at least 48 hours before				Notice of commencement was provided to all relevant parties on the 1 June 2018, aside from the
B1	those dates.	Pre construction			erection of hoarding and office



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	If the construction or operation of the development is to be staged, the Department, Certifying Authority and Council must be notified in writing at least 48 hours before the commencement of each stage, of the date of commencement and the development to be carried out in that stage.				demountable this was prior to the commencement of physical works.
B2	Plans certified in accordance with section 109R of the EP&A Act are to be submitted to the Certifying Authority and the Department prior to commencement of each stage of the construction works and must include details as required by any of the following conditions.	Pre construction	С		Approved plans were issued with the SSD dated 23 February 2018 and issued to compliance @DPE on the 5 June 2018. the certifying authority signed off on the Crown certificate and all associated documentation for this stage of works on the 8/6/18.
В3	The building materials used on the facades of the structure must have a maximum normal specular reflectivity of visible light of 20 per cent and must be designed so as not to result in glare that causes any discomfort or threatens the safety of pedestrians or drivers. A statement demonstrating compliance with these requirements or where compliance cannot be met a report that demonstrates that the exceedance would not result in glare that causes any discomfort or threatens the safety of pedestrians or drivers is to be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works.	Pre construction	NT		The scope of this first audit is primarily to check the compliance of the conditions of approval relevant to this stage of works and Environmental management plans and sub plans with this approval. This condition will be addressed in Crown Certificate 2 (CC2) – Superstructure and Façade
В4	All outdoor lighting within the site must comply with, where relevant, AS 1158.3.1:2005 Pedestrian Area (Category P) Lighting and AS 4282-1997 Control of the Obtrusive Effects of Outdoor Lighting. Details demonstrating compliance with these requirements are to be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works.	Pre construction	NT		The scope of this first audit is primarily to check the compliance of the conditions of approval relevant to this stage of works and Environmental management plans and sub plans with this approval. This condition will be addressed in Crown Certificate 2 (CC2) – Superstructure and Façade
B5	The works that are the subject of this application must be designed and constructed to provide access and facilities for people with a disability in accordance with the Building Code of Australia (BCA). The Certifying Authority must ensure that evidence of compliance with this condition from an appropriately qualified person is provided and that the requirements are referenced on any certified plans.	Pre construction	NT		The scope of this first audit is primarily to check the compliance of the conditions of approval relevant to this stage of works and Environmental management plans and sub plans with this approval.



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
					This condition will be addressed in Crown Certificate 2 (CC2) – Superstructure and Façade
	Plans demonstrating compliance with the following requirements for bicycle parking shall be submitted to the satisfaction of the Certifying Authority:				
	a) the provision of a minimum of eight bicycle parking spaces are to be provided at the front entrance of the museum for visitors and a minimum of four bicycle parking spaces are to be located in the loading dock for staff;				The scope of this first audit is primarily to check the compliance
	b) the layout, design and security of bicycle facilities shall comply with the all applicable minimum requirements of AS 2890.3:2015 Parking facilities — Bicycle parking, and be located in secure, convenient and accessible areas close to the main entries and incorporating adequate lighting and opportunities for passive surveillance; and				of the conditions of approval relevant to this stage of works and Environmental management plans and sub plans with this approval. This condition will be addressed in
B6	c) the provision of end-of-trip facilities for staff including shower, changeroom and lockers.	Pre construction	NT		Crown Certificate 2 (CC2) – Superstructure and Façade
В7	Soil erosion and sediment control measures must be designed in accordance with the document Managing Urban Stormwater – Soils & Construction Volume 1 (Landcom, 2004). Details are to be submitted to the satisfaction of the Certifying Authority prior to the commencement of any works.	Pre construction	С		Soil erosion and sediment control measures have been designed in accordance with the condition and are detailed in the plan prepared by Northrop (C12.01 CONCEPT SEDIMENT AND EROSION CONTROL PLAN) and submitted with CC1.
	The Applicant is to engage a qualified structural engineer to prepare a Pre-Construction Dilapidation Report detailing the current structural condition of all retained existing and adjoining buildings within the site, infrastructure and roads within the 'zone of influence'. Any entry into private land is subject to the consent of the owner(s) and any inspection of buildings on privately affected land must include details of the whole building where only part of the building falls within the 'zone of influence'. The report must be submitted to the satisfaction of the Certifying Authority prior to the commencement of any works. A copy of the report is to be forwarded to Council.				Dilapidation reports have been prepared for: Roads and Footpaths 3 May 2018; Includes portion of Parramatta Road and internal driveways, footpaths, retaining walls, garden walls, stairs, etc.
B8	In the event that access for undertaking a Pre-Construction Dilapidation Report is denied by an adjoining owner, the applicant must demonstrate, in writing, to the satisfaction of the Secretary that all reasonable steps have been taken to obtain	Pre construction	С		 Baxter Lodge3 May 2018; The Quad/ Great Hall 3 May



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	access and advise the affected property owner of the reason for the report and that these steps have failed.				2018Eastern portion and Hall, external walls and common areas only • Fischer Library 3 May 2018; Not including the Stacks The dilapidation report prepared by Cardno (8 May 2018) was reviewed during the audit
B9	Plans demonstrating compliance with the following traffic and parking requirements must be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works: a) all vehicles should enter and leave the Subject Site in a forward direction. In the event that site constraints do not permit heavy rigid vehicles to enter and leave in a forward direction, then all reversing movements should be undertaken under the control of certified traffic controllers to ensure public safety when vehicles are reversing; b) all construction vehicles (excluding worker vehicles) are to be contained wholly within the site or designated work zone and vehicles must enter the site and/or work zone before stopping; c) all works/ regulatory signposting associated with the proposed development must be at no cost to the relevant roads authority; and d) the swept path of the longest vehicle entering and exiting the Subject Site in association with the new work, as well as manoeuvrability through the Subject Site, must be in accordance with AUSTROADS. In this regard, a plan must be submitted to the certifying authority for approval, which shows that the proposed development complies with this requirement.	Pre construction	С		The Construction Traffic Management Plan Rev 4 was provided with CC1. The plan details a) Figure 4 details vehicle movement on site, Section 3.7 addresses truck sept paths and turning movements b) Section 1.9, Section 3.7 and Site layout plans detail marshalling and parking requirements and include the requirement for vehicles to remain within the site. c) FDC is responsible for construction signage d) Swept path scenarios are detailed in Section 3.7.



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	Prior to the commencement of works, the Applicant must submit for the approval of the Certifying Authority structural drawings prepared and signed by a suitably qualified practising Structural Engineer that demonstrates compliance with:			Structural plans to	
	a) the relevant clauses of the BCA; and			be submitted with	Structural plans to be submitted
B10	b) this development consent.	Pre construction	NT	CC2	with CC#2
	Prior to the commencement of works, the Applicant must demonstrate that the mechanical plant and equipment is designed to meet the following criteria:				
	a) does not generate noise (measured at the most affected or potentially affected residence) that exceeds:				
	i) 53 dBA LAeq(period) for the daytime and evening periods, and				
	ii) 45 dBA LAeq(15minute) for the night time period; and				These targets relate to operational noise. The stage of works that are
	b) does not generate noise that exhibits tonal, low frequency or other annoying characteristics.				currently being planned is the substructure and covered under
B11	Details are to be provided by a qualified acoustic engineer to the Certifying Authority prior to commencement of work.	Pre construction	NT		CC#1. This condition will be addressed in CC#2
B12	All mechanical ventilation systems must be installed in accordance with Part F4.5 of the BCA and must comply with the AS 1668.2-2012 The use of ventilation and airconditioning in buildings – Ventilation design for indoor air containment control and AS 3666.2:2011 Air-handling and water systems of buildings to ensure adequate levels of health and amenity to the occupants of the building and to ensure environment protection. Details must be submitted for the approval of the Certifying Authority prior to the commencement of above ground works.	Pre construction	NT		The stage of works that are currently being planned is the substructures and covered under CC#1. This condition will be addressed in CC#2
B13	The installation, operation and maintenance of warm water systems and water cooling systems (as defined under the Public Health Act 2010) must comply with the Public Health Act 2010, Public Health Regulation 2012 and Parts 1 and 2 (or Part 3 if a Performance-based water cooling system) of AS/NZS 3666.2:2011 Air handling and water systems of buildings – Microbial control – Operation and maintenance and the NSW Health Code of Practice for the Control of Legionnaires' Disease.	Pre construction	NT		The stage of works that are currently being planned is the substructure and covered under CC#1. This condition will be addressed in CC#2
B14	The building plans and specifications must demonstrate, for the approval of the Certifying Authority, that an appropriate area will be provided within the premises for the storage of garbage bins, recycling containers and all waste and recyclable material generated by the premises. Requirements of these storage areas must:	Pre construction	NT		This condition relates to a design requirement during the operational phase. The stage of works that are currently being planned is the substructure and



		Compliance		
Requirement	Stage/timing	Status	Action Required	Comments
 a) ensure all internal walls of the storage area are rendered to a smooth surface, coved at the floor/wall intersection, graded and appropriately drained with a tap in close proximity to facilitate cleaning; 				covered under CC#1. This condition will be addressed in CC#2.
b) include provision for the separation and storage, in appropriate categories, of material suitable for recycling; and				
c) include provision for separate storage and collection of organic/food waste.				
The fit out of the food premises shall be carried out in accordance with AS 4674 Design, construction and fit-out of food premises. Details of compliance with the relevant provisions of the food code shall be prepared by a suitably qualified person and submitted to the satisfaction of the Certifying Authority prior to the commencement of works, except site preparatory works.	Pre construction	NT		This condition relates to a design requirement during the operational phase. The stage of works that are currently being planned is the substructure and covered under CC#1. This condition will be addressed in CC#2.
Final design plans of the stormwater drainage systems, prepared by a qualified practicing professional and in accordance with the requirements of Council, must be submitted to the Certifying Authority prior to the commencement of any works. The hydrology and hydraulic calculations must be based on models described in the current edition of Australian Rainfall and Runoff.	Pre construction	С		Civil and Hydraulic plans have been prepared by Northrop Rev 2 dated 30/5/18.
Kerb and gutter, stormwater drainage, full road width pavement including traffic facilities (vehicle crossings, if applicable) and paved footpaths must be constructed along the area where road works are to be undertaken. In relation to public roads or classified road (as defined under the Roads Act 1993), all roads and traffic facilities must be designed to meet the requirements of Council and RMS (if applicable) and obtain the necessary permits and approvals from the relevant road authority, prior to the commencement of road or pavement construction works.	Pre construction	NT		Civil and Hydraulic plans have been prepared by Northrop Rev 2 dated 30/5/18. These works have not yet commenced.
a) Prior to the commencement of construction works, a Construction Environmental Management Plan (CEMP) must be submitted for the approval of the Certifying Authority. The CEMP must address, but not be limited to, the following matters where relevant: i) hours of work; ii) 24 hour contact details of site manager;			FDC to provide Appendix 7 Unexpected find protocol	i) hours of work are included in the NVMP Section 6.1 ii) 24 hr contacts are included in Section 1.2 of the CEMP iii) traffic management included on site establishment diagrams iv) NVMP prepared by EMS (2018)
	a) ensure all internal walls of the storage area are rendered to a smooth surface, coved at the floor/wall intersection, graded and appropriately drained with a tap in close proximity to facilitate cleaning; b) include provision for the separation and storage, in appropriate categories, of material suitable for recycling; and c) include provision for separate storage and collection of organic/food waste. The fit out of the food premises shall be carried out in accordance with AS 4674 Design, construction and fit-out of food premises. Details of compliance with the relevant provisions of the food code shall be prepared by a suitably qualified person and submitted to the satisfaction of the Certifying Authority prior to the commencement of works, except site preparatory works. Final design plans of the stormwater drainage systems, prepared by a qualified practicing professional and in accordance with the requirements of Council, must be submitted to the Certifying Authority prior to the commencement of any works. The hydrology and hydraulic calculations must be based on models described in the current edition of Australian Rainfall and Runoff. Kerb and gutter, stormwater drainage, full road width pavement including traffic facilities (vehicle crossings, if applicable) and paved footpaths must be constructed along the area where road works are to be undertaken. In relation to public roads or classified road (as defined under the Roads Act 1993), all roads and traffic facilities must be designed to meet the requirements of Council and RMS (if applicable) and obtain the necessary permits and approvals from the relevant road authority, prior to the commencement of road or pavement construction works. a) Prior to the commencement of construction works, a Construction Environmental Management Plan (CEMP) must be submitted for the approval of the Certifying Authority. The CEMP must address, but not be limited to, the following matters where relevant: i) hours of work;	a) ensure all internal walls of the storage area are rendered to a smooth surface, coved at the floor/wall intersection, graded and appropriately drained with a tap in close proximity to facilitate cleaning; b) include provision for the separation and storage, in appropriate categories, of material suitable for recycling; and c) include provision for separate storage and collection of organic/food waste. The fit out of the food premises shall be carried out in accordance with AS 4674 Design, construction and fit-out of food premises. Details of compliance with the relevant provisions of the food code shall be prepared by a suitably qualified person and submitted to the satisfaction of the Certifying Authority prior to the commencement of works, except site preparatory works. Final design plans of the stormwater drainage systems, prepared by a qualified practicing professional and in accordance with the requirements of Council, must be submitted to the Certifying Authority prior to the commencement of any works. The hydrology and hydraulic calculations must be based on models described in the current edition of Australian Rainfall and Runoff. Kerb and gutter, stormwater drainage, full road width pavement including traffic facilities (vehicle crossings, if applicable) and paved footpaths must be constructed along the area where road works are to be undertaken. In relation to public roads or classified road (as defined under the Roads Act 1993), all roads and traffic facilities must be designed to meet the Roads Act 1993), all roads and traffic facilities must be designed to meet the Roads Act 1993), all roads and traffic facilities must be designed to meet the Roads Act 1993), all roads and traffic facilities must be designed to meet the Roads Act 1993), all roads and traffic facilities must be designed to meet the Roads Act 1993), all roads and traffic facilities and be designed to meet the Roads Act 1993), all roads and traffic facilities of the commencement of road or pavement construction works. a) Prior	a) ensure all internal walls of the storage area are rendered to a smooth surface, coved at the floor/wall intersection, graded and appropriately drained with a tap in close proximity to facilitate cleaning; b) include provision for the separation and storage, in appropriate categories, of material suitable for recycling; and c) include provision for separate storage and collection of organic/food waste. The fit out of the food premises shall be carried out in accordance with AS 4674 Design, construction and fit-out of food premises. Details of compliance with the relevant provisions of the food code shall be prepared by a suitably qualified person and submitted to the satisfaction of the Certifying Authority prior to the commencement of works, except site preparatory works. Final design plans of the stormwater drainage systems, prepared by a qualified practicing professional and in accordance with the requirements of Council, must be submitted to the Certifying Authority prior to the commencement of any works. The hydrology and hydraulic calculations must be based on models described in the current edition of Australian Rainfall and Runoff. Kerb and gutter, stormwater drainage, full road width pavement including traffic facilities (vehicle crossings, if applicable) and paved footpaths must be constructed along the area where road works are to be undertaken. In relation to public roads or classified road (as defined under the Roads Act 1993), all roads and traffic facilities must be designed to meet the requirements of Council and RMS (if applicable) and obtain the necessary permits and approvals from the relevant road authority, prior to the commencement of road or pavement construction works. a) Prior to the commencement of construction works, a Construction Environmental Management Plan (CEMP) must be submitted for the approval of the Certifying Authority. The CEMP must address, but not be limited to, the following matters where relevant: i) hours of work; ii) 24 hour contact details of site manager;	a) ensure all internal walls of the storage area are rendered to a smooth surface, coved at the floor/wall intersection, graded and appropriately drained with a tap in close proximity to facilitate cleaning; b) include provision for the separation and storage, in appropriate categories, of material suitable for recycling; and c) include provision for separate storage and collection of organic/food waste. The fit out of the food premises shall be carried out in accordance with AS 4674 Design, construction and fit-out of food premises. Details of compliance with the relevant provisions of the food code shall be prepared by a suitably qualified person and submitted to the satisfaction of the Certifying Authority prior to the commencement of works, except site preparatory works. Final design plans of the stormwater drainage systems, prepared by a qualified practicing professional and in accordance with the requirements of Council, must be submitted to the Certifying Authority prior to the commencement of any works. The hydrology and hydraulic calculations must be based on models described in the current edition of Australian Rainfall and Runoff. Kerb and gutter, stormwater drainage, full road width pavement including traffic facilities (vehicle crossings, if applicable) and paved footpaths must be constructed along the area where road works are to be undertaken. In relation to public roads or classified road (as defined under the Roads Act 1993), all roads and traffic facilities must be designed to meet the requirements of Council and RNIs (fi applicable) and obtain the necessary permits and approvals from the relevant road authority, prior to the commencement of road or pavement construction works. a) Prior to the commencement of construction works, a Construction Environmental Management Plan (CEMP) must be submitted for the approval of the Certifying Authority. The CEMP must address, but not be limited to, the following matters where relevant: i) hours of work; ii) 24 hour contact details of site manager;



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	iv) construction noise and vibration management, prepared by a suitable qualified person;				v) Dust management included in Appendix 1 of the CEMP
	v) management of dust and odour to protect the amenity of the neighbourhood; vi) erosion and sediment control; vii) stormwater control and discharge;				vi) erosion and sediment control included in Appendix 1 of the CEMP
	viii) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the Subject Site;				vii) stormwater control included in Appendix 1 of the CEMP
	ix) procedures for encountering groundwater during construction works; x) external lighting in compliance with AS4282:1997 Control of the Obtrusive Effects of Outdoor Lighting;				viii) requirements for street sweepers and stabilised entry/exit points in Appendix 1 of the CEMP
	xi) a protocol detailing appropriate procedures for identifying and dealing with unexpected finds of site contamination (including asbestos containing materials, Polycyclic aromatic hydrocarbons (PAHs), Total recoverable hydrocarbons (TRH) and lead-based paint);				ix) there is a testing requirement in appendix 1 of the CEMP, could also include dewatering requirements in reference to this
	xii) a protocol detailing appropriate procedures for identifying and dealing with unexpected finds of archaeological and Aboriginal heritage;				x) included in the 3.14 of the CEMP xi) Appendix 1 of the CEMP includes steps in the event of an
	xiii) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site; and				unexpected find xii) Appendix 7 of the CEMP is referenced as the unexpected
	xiv) waste storage, recycling and litter control;b) The CEMP must not include works that have not been explicitly approved in this development consent. In the event of any inconsistency between the consent and				finds protocol however it was not included in the CEMP provided at the time of the audit
	the CEMP, the consent must prevail; and c) The Applicant must submit a copy of the CEMP to the Department and Council prior to commencement of work.				xiii) & xiv) A waste management plan has been prepared dealing with classification, storage and recycling
					c) The EMP was provided to DPE and CoS on the 1 June 2018
B19	The CEMP (as revised from time to time) must be implemented by the Applicant for the duration of the construction works.	ALL	Note		
				FDC to provide	i) NVMP prepared by EMS
B20	Prior to the commencement of works, a Construction Noise and Vibration Management Plan (CNVMP) must be submitted for the approval of the Certifying	Pre construction	NC	evidence that the NVMP was	li) Although the plan has been provided to council there was no



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	Authority. The CNVMP must address, but not be limited to, the following matters where relevant: i) be prepared by a suitably qualified expert; ii) be prepared in consultation with Council and all noise sensitive receivers where noise levels exceed the construction noise management level, in accordance with EPA guidelines; iii) describe the measures that would be implemented to ensure: i. best management practice is being employed; ii. compliance with the relevant conditions of this consent; iv) describe the proposed noise and vibration management measures in detail; v) include strategies that have been developed to address impacts to noise sensitive receivers where noise levels exceed the construction noise management level, for managing high noise generating works; vi) describe the consultation undertaken to develop the strategies in v) above; vii) evaluates and reports on the effectiveness of the noise and vibration management measures; and viii) include a complaints management system that would be implemented for the duration of the construction works. b) The Applicant must submit a copy of the CNVMP to the Department and Council prior to commencement of work.			prepared in consultation with council It is suggested that the NVMP links to the auditing requirements in the CEMP, to satisfy the requirement of point vii) of B20. It is also recommended that noise monitoring occurs to test compliance with the construction noise goals	evidence to show it had been prepared in consultation with council. iii) BMP included in 6.2 of NVMP, NVMP includes relevant consent conditions iv) Section 6 of the NVMP includes mitigation measures v) the NVMP has identified that the noise management level may be exceeded, strategies are included in table 4.3 and section 6 to reduce this impact vi) The NVMP does not detail the consultation undertaken to develop strategies in v) above vii) the NVMP does not include a section that evaluates the effectiveness of controls in the plan. Section 3.16 of the CEMP does include a process for auditing the sub plans. viii) Section 6.7 of the NVMP deals with complaints b) The University of Sydney provided a copy of the NVMP to DPE and CoS as evidenced by the email dated June 2018 from Stephanie Kerr, CIS Town Planner Campus Infrastructure & services the University of Sydney.
B21	The CNVMP (as revised from time to time) must be implemented by the Applicant for the duration of the construction works.	ALL	Note		



a) Prior to the commencement of works, a Construction Waste Management Plan (CWMP) must be submitted for the approval of the Certifying Authority. The CWMP must address, but not be limited to, the following matters where relevant: ii) recycling of demolition materials including concrete; and iii) removal of hazardous materials and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of any building works. b) Details demonstrating compliance with the relevant legislative requirements,	Stage/timing	Compliance Status	Action Required	a) A waste management plan has been prepared Waste management Plan REV A i) recycling of demolition wastes would be undertaken off site ii) the removal of hazardous waste is not specifically covered in the WMP, however this requirement is included in the CEMP Appendix 1 b) details regarding legislative compliance for the removal of hazardous waste is not specifically dealt with in the WMP, however is
(CWMP) must be submitted for the approval of the Certifying Authority. The CWMP must address, but not be limited to, the following matters where relevant: i) recycling of demolition materials including concrete; and ii) removal of hazardous materials and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of any building works.				been prepared Waste management Plan REV A i) recycling of demolition wastes would be undertaken off site ii) the removal of hazardous waste is not specifically covered in the WMP, however this requirement is included in the CEMP Appendix 1 b) details regarding legislative compliance for the removal of hazardous waste is not specifically
associated with the removal of hazardous waste, particularly the method of containment and control of emission of fibres to the air, are to be submitted for the approval of the Certifying Authority prior to the removal of any hazardous materials; c) The Applicant must notify the RMS Traffic Management Centre of the truck route(s) to be followed by trucks transporting waste material from the Subject Site, prior to the commencement of the removal of any waste material from the Subject Site; and d) The Applicant must submit a copy of the plan to the Department and to the Council prior to the commencement of work.	Pre construction	C	FDC to notify RMS TMC of haul routes prior to removing spoil	included in the CEMP c) No waste material had left the site at the time of the audit so the requirement is NT yet. d) The University of Sydney provided a copy of the WMP to DPE and CoS as evidenced by the email dated June 2018 from Stephanie Kerr, CIS Town Planner Campus Infrastructure & services the University of Sydney.
The CWMP (as revised from time to time) must be implemented by the Applicant for	TTC CONSTRUCTION		/ waste from site.	Scrinces the offiversity of Syuncy.
the duration of the construction works.	ALL	note		
Prior to the commencement of construction works, a Construction Traffic and Pedestrian Management Plan (CTPMP) must be prepared by a suitably qualified expert in consultation with Council, RMS and TfNSW (Sydney Coordination Office), and submitted for the approval of the Certifying Authority. The CTPMP must address,				A CTMP has been prepared and addresses all the requirements of this condition. CTMP Rev 2. Email evidence was provided showing he plan had been provided to RMS and COS
Th th Pr ex	ior to the commencement of work. The CWMP (as revised from time to time) must be implemented by the Applicant for the duration of the construction works. The commencement of construction works, a Construction Traffic and electrical Management Plan (CTPMP) must be prepared by a suitably qualified expert in consultation with Council, RMS and TfNSW (Sydney Coordination Office), and submitted for the approval of the Certifying Authority. The CTPMP must address, at not be limited to, the following matters where relevant:	pre construction The CWMP (as revised from time to time) must be implemented by the Applicant for e duration of the construction works. ALL The construction works and the construction works, a Construction Traffic and electrical Management Plan (CTPMP) must be prepared by a suitably qualified expert in consultation with Council, RMS and TfNSW (Sydney Coordination Office), and submitted for the approval of the Certifying Authority. The CTPMP must address, at not be limited to, the following matters where relevant: Illocation of proposed work zones;	rior to the commencement of work. Pre construction C The CWMP (as revised from time to time) must be implemented by the Applicant for e duration of the construction works. ALL Inote In (CTPMP) must be prepared by a suitably qualified expert in consultation with Council, RMS and TfNSW (Sydney Coordination Office), and submitted for the approval of the Certifying Authority. The CTPMP must address, at not be limited to, the following matters where relevant:	removing spoil /waste from site. Pre construction C ALL note ALL note ALL ior to the commencement of construction works, a Construction Traffic and edestrian Management Plan (CTPMP) must be prepared by a suitably qualified expert in consultation with Council, RMS and TfNSW (Sydney Coordination Office), and submitted for the approval of the Certifying Authority. The CTPMP must address, at not be limited to, the following matters where relevant: location of proposed work zones;



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
Reference	iii) construction vehicle access arrangements;	Stage/tilling	Status	Action Required	Comments
	iv) construction hours;				
	v) construction program;				
	vi) predicted construction traffic volumes and vehicle movements, types and routes including any known road closures and consideration of alternate routes;				
	vii) details of construction vehicle movements including parking, dedicated vehicle turning areas and ingress and egress points;				
	viii) loading and unloading;				
	ix) details of management measures to minimise traffic impacts, including temporary road works and/or implementation of traffic control measures;				
	x) pedestrian and traffic management methods;				
	xi) any potential impacts to general traffic, cyclists, pedestrians and bus services within the vicinity of the site from construction vehicles during the works;				
	xii) consideration of the cumulative construction traffic impacts of surrounding projects under construction, including those within the University of Sydney precinct.				
	Existing CTPMPs for developments within or around the Subject Site should be referenced in the CTPMP to ensure that the coordination of work activities are managed to minimise impacts on the surrounding road network; and				
	xiii) should impacts be identified, the duration of the impacts and measures proposed to mitigate any associated general traffic, public transport, pedestrian and cyclist impacts.				
	b) The Applicant must submit a copy of the CTPMP to the Secretary and City of Sydney Council, prior to the commencement of works.				
B25	The CTPMP (as revised from time to time) must be implemented by the Applicant for the duration of the construction works.	ALL	Note		
	Prior to the commencement of construction works, or as otherwise agreed by the Secretary, the following must be made available for community enquiries and complaints for the duration of construction:			FDC update the CSMP to include	management plan has been
	a) a toll-free 24 hour telephone number(s) on which complaints and enquiries about the carrying out of any works may be registered;			the contact details as required by this	prepared however it does not include details of
	b) a postal address to which written complaints and enquires may be sent; and			condition	24 hr toll free number Postal address for
B26	c) an email address to which electronic complaints and enquiries may be transmitted.	ALL	NC		 Postal address for complaints



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
					 Email address for complaints
					It was noted at the site inspection that signage on the hoarding included a contact number.
					It is also noted that 24 hr contacts are included in Section 1.2 of the CEMP
	A Complaints Management System must be prepared prior to the commencement of any construction works and be implemented and maintained for the duration of these works.				
	The Complaints Management System must include a Complaints Register to be maintained recording information on all complaints received about the development during the carrying out of any works associated with the development. The Complaints Register must record the:				A communication and stakeholder
	a) number of complaints received;				management plan has been
	b) number of people affected in relation to a complaint; and				prepared and a community relations register has been set up
	c) nature of the complaint and means by which the complaint was addressed and whether resolution was reached, with or without mediation.				detailing these requirements. It is not yet populated as works had
B27	The Complaints Register must be provided to the Secretary upon request, within the timeframe stated in the request.	ALL	С		not substantially commenced at the time of the audit.
B28	Prior to the commencement of construction work the Applicant is to negotiate (where necessary) with the utility authorities (e.g. Ausgrid and telecommunication carriers) in connection with the relocation and/or adjustment of the services affected by the construction of the building structure.	Pre construction	С		Email to Paul Schenko (of Group DLA – the certifier) was provided showing that no telecommunications services would be impacted as a result of the works – email dated 6/6/18.
B29	Prior to the commencement of above ground works written advice must be obtained from the electricity supply authority, an approved telecommunications carrier and an approved gas carrier (where relevant) stating that satisfactory arrangements have been made to ensure provisions of adequate services.	Pre construction	NT		This stage of works is for substructure works.



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
B30	The external walls of all buildings, including additions to existing buildings, must comply with the relevant requirements of the NCC. Prior to commencement of works, the Applicant must provide the Certifying Authority with documented evidence that the products and systems proposed for use external walls, including finishes and claddings such as synthetic or aluminium composite panels, comply with the requirements of the NCC. The Applicant must provide a copy of the documentation given to the Certifying Authority to the Secretary within seven days after the Certifying Authority accepts it.	Pre construction	NT		This will be provided for crown certificate 2– Superstructure and Façade
B31	A Pre-Construction Compliance Report must be prepared for the development, and submitted to the Certifying Authority for approval before the commencement of construction works. A copy of the endorsed compliance report must be provided to the Department at compliance@planning.nsw.gov.au before the commencement of construction works.	Pre construction	С		A letter to Group DLA – the independent certifiers has been sent from FDC, stating that they are compliant with all pre construction conditions. Email dated 8/6/18 showed that the pre construction compliance report had been sent to compliance@planning.nsw.gov.au
B32	The Pre-Construction Compliance Report must include: a) details of how the terms of this consent that must be addressed before the commencement of construction have been complied with; and b) the expected commencement date for construction.	Pre construction	С		Email dated 8/6/18 showed that the pre construction compliance report had been sent to compliance@planning.nsw.gov.au
В33	Prior to tree removal, tree hollows are to be checked by a qualified ecologist or wildlife carer for the presence of bats. Any bats found are to be relocated, unless in torpor, in which case relocation and tree removal is to be delayed until the end of the torpor period.	Pre construction	С		AMBS undertook a survey to check hollows and for the presence of bats and provided a report dated the 6 April 2018. 17 trees were inspected, and no hollows or evidence of bats were found.
B34 – B38	No later than one month before the commencement of construction works or within another timeframe agreed with the Secretary, a program of independent environmental audits must be prepared for the development in accordance with the	ALL	С		This audit



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	latest version of AS/NZS ISO 19011-2014: Guidelines for Auditing Management Systems (Standards Australia, 2014) and submitted to the Secretary for information.				
	B35. The scope of each audit must be defined in the program. The program must ensure that environmental performance of the development in relation to each compliance requirement that forms the audit scope is assessed at least once in each audit cycle.				
	B36. The environmental audit program prepared and submitted to the Secretary in accordance with conditions B35 and B36 above must be implemented and complied with for the duration of the development.				
	B37. All independent environmental audits of the development must be conducted by a suitably qualified, experienced and independent team of experts and be documented in an audit report which:				
	a) assesses the environmental performance of the development, and its effects on				
	the surrounding environment including the community;				
	b) assesses whether the development is complying with the terms of this consent;				
	c) reviews the adequacy of any document required under this consent; and				
	d) recommends measures or actions to improve the environmental performance of the development, and improvements to any document required under this consent.				
	B38. Within three months of commencing an Independent Environmental Audit, or within another timeframe agreed by the Secretary, a copy of the audit report must be submitted to the Secretary, and any other NSW agency that requests it, together with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations must be implemented to the satisfaction of the Secretary.				
SSD 7984 consen	t requirements PART C During Construction				
C1	A copy of the approved and certified plans, specifications and documents incorporating conditions of approval and certification must be kept on the Subject Site at all times and must be readily available for perusal by any officer of the Department, Council or the Certifying Authority.		NA		Not audited as construction had not commenced on site at the time of the site audit
	a) Construction, including the delivery of materials to and from the site, may only be carried out between the following hours:				Not audited as construction had
	i) between 7 am and 6 pm, Mondays to Fridays inclusive; and				not commenced on site at the
C2	ii) between 7.30 am and 3.30 pm, Saturdays.		NA		time of the site audit



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	b) No work may be carried out on Sundays or public holidays.				
	c) Activities may be undertaken outside of these hours:				
	i) if required by the Police or a public authority for the delivery of vehicles, plant or materials; or				
	ii) if required in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or				
	iii) works are inaudible at the nearest sensitive receivers; or				
	iv) if a variation is approved in advance in writing by the Secretary or her nominee.				
	d) Notification of such activities must be given to affected residents before undertaking				
	the activities or as soon as is practical afterwards.				
	Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours:				
	a) 9 am to 12 pm, Monday to Friday;				Not audited as construction had
	b) 2 pm to 5 pm Monday to Friday; and				not commenced on site at the
C3	c) 9 am to 12 pm, Saturday.		NA		time of the site audit
C4	The development must be constructed with the aim of achieving the construction noise management levels detailed in the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the CNVMP required under condition B21.		NA		Not audited as construction had not commenced on site at the time of the site audit
C5	If the noise from a construction activity is substantially tonal or impulsive in nature (as described in Chapter 4 of the Noise Policy for Industry, 5 dB(A) must be added to the measured construction noise level when comparing the measured noise with the construction noise management levels.		NA		Not audited as construction had not commenced on site at the time of the site audit
C6	The Applicant must ensure construction vehicles do not arrive at the Subject Site or surrounding residential precincts outside of the construction hours of work outlined under condition C2.		NA		Not audited as construction had not commenced on site at the time of the site audit
C7	The use of impact piling is not permitted.		NA		Not audited as construction had not commenced on site at the time of the site audit



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
C8	The Applicant must schedule intra-day 'respite periods' for construction activities identified in the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009) as being particularly annoying or intrusive to noise sensitive receivers, including surrounding residents and nearby hospital buildings. These activities are to be carried out after 8 am only and over continuous periods no exceeding three hours (with at least a one hour respite every three hours).		NA		Not audited as construction had not commenced on site at the time of the site audit
C9	Wherever practical, and where sensitive receivers may be affected, piling activities are completed using bored piles. If driven piles are required they must only be installed where outlined in a CNVMP required under condition B21.		NA		Not audited as construction had not commenced on site at the time of the site audit
C10	The Applicant must implement, where practicable and without compromising the safety of construction staff or members of the public, the use of audible movement alarms of a type that would minimise noise impacts on surrounding noise sensitive receivers.		NA		Not audited as construction had not commenced on site at the time of the site audit
C11	Any noise generated during construction of the development must not be offensive noise within the meaning of the Protection of the Environment Operations Act 1997 or exceed approved noise limits for the Subject Site.		NA		Not audited as construction had not commenced on site at the time of the site audit
	Vibration caused by the construction works at any residence or structure outside the Subject Site must be limited to:				
	a) for structural damage vibration, German Standard DIN 4150 Part 3 Structural Vibration in Buildings. Effects on Structures;				
	b) for human exposure to vibration, the evaluation criteria presented in British Standard BS 6472 – Guide to Evaluate Human Exposure to Vibration in Buildings (1 Hz to 80 Hz) for low probability of adverse comment;				
	c) vibratory compactors must not be used closer than 30 metres from residential buildings unless vibration monitoring confirms compliance with the vibration criteria specified above; and				Not audited as construction had
C12	d) these limits apply unless otherwise outlined in the CNVMP required under Condition B21 and submitted for the approval of the Certifying Authority.		NA		not commenced on site at the time of the site audit
C13	All waste generated during construction must be assessed, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014).		NA		Not audited as construction had not commenced on site at the time of the site audit



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
C14	The body of any vehicle or trailer used to transport waste or excavation spoil must be covered before leaving the premises to prevent any spillage or escape of any dust, waste of spoil. Mud, splatter, dust and other material likely to fall from or be cast off the wheels, underside or body of any vehicle, trailer or motorised plant leaving the site must be removed before leaving the premises.		NA		Not audited as construction had not commenced on site at the time of the site audit
C15	The Applicant must ensure that concrete waste and rinse water are not disposed of on the Subject Site and are prevented from entering any natural of artificial watercourse.		NA		Not audited as construction had not commenced on site at the time of the site audit
C16	The Applicant is to consult with SafeWork NSW concerning the handling of any asbestos waste that may be encountered during construction. The requirements of the Protection of the Environment Operations (Waste) Regulation 2014 with particular reference to Part 7 – 'Transportation and management of asbestos waste' must also be complied with.		NA		Not audited as construction had not commenced on site at the time of the site audit
C17	If any unexpected archaeological deposits/relics are discovered during construction, then all works must cease immediately in that area and the OEH Heritage Division contacted in writing. Depending on the possible significance of the discovery, an archaeological assessment and management strategy may be required before further works can continue in that area. Works may only recommence with the written approval of the OEH Heritage Division.		NT		
C18	In the event that surface disturbance identified an Aboriginal object, all works must halt in the immediate area to prevent any further impacts to the object(s). A suitably qualified archaeologist and the registered Aboriginal representatives must be contacted to determine the significance of the objects. The site is to be registered in the Aboriginal Heritage Information System (AHIMS) which is managed by OEH and the management outcome for the site included in the information provided to AHIMS. The Applicant must consult with the Aboriginal community representatives, the archaeologists and OEH, to development and implement management strategies for all projects/site.		NT		
C19	Prior to commencement and for the duration of works, the tree protection measures outlined in the Arboricultural Impact Assessment, prepared by ArborSafe, dated 12 May 2017, are to be implemented and maintained.		С		Tree protection measures in Aborsafe report prepared (2017) were implemented at the time of the audit, including fencing to avoid impacts to the TPZ.



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
C20	All erosion and sediment control measures, are to be effectively implemented and maintained at or above design capacity for the duration of the construction works and until such time as all ground disturbed by the works have been stabilised and rehabilitated so that it no longer acts as a source of sediment.		NA		Not audited as construction had not commenced on site at the time of the site audit
C21	Any seepage or rainwater collected on-site during construction or groundwater must not be pumped to the street stormwater system unless separate prior approval is given in writing by the relevant approval authority where necessary.		NA		Not audited as construction had not commenced on site at the time of the site audit
C22	A Road Occupancy Licence must be obtained from the Transport Management Centre (RMS) for any works that impact on traffic flows on public roads or classified roads (as those terms are defined under the Roads Act 1993), during construction activities.		NA		Not audited as construction had not commenced on site at the time of the site audit
C23	The loading and unloading of construction materials must not be carried out on Parramatta Road in order to ensure the continued and unimpeded operation of existing public transport services.		NA		Not audited as construction had not commenced on site at the time of the site audit
	a) A site notice(s) must be prominently displayed at the boundaries of the Subject Site for the purposes of informing the public of project details including, but not limited to the details of the Builder, Certifying Authority and Structural Engineer.				
	b) The site notice(s) is to satisfy all but not be limited to, the following requirements: i) minimum dimensions of the notice are to measure 841 mm x 594 mm (A1) with any text on the notice to be a minimum of 30 point type size;				
	ii) the notice is to be durable and weatherproof and is to be displayed throughout the works period;				
	iii) the approved hours of work, the name of the site/ project manager, the responsible managing company (if any), its address and 24 hour contact phone number for any inquiries, including construction/ noise complaint are to be displayed on the site notice; and				
C24	iv) the notice(s) is to be mounted at eye level on the perimeter hoardings/fencing and is to state that unauthorised entry to the Subject Site is not permitted.		С		This sign as erected at the time of the site inspection
C25	To protect the safety of work personnel and the public, the Subject Site must be adequately secured to prevent access by unauthorised personnel, and work must be conducted at all times in accordance with relevant Work Cover requirements.		С		Hoarding surrounds the site and the construction site was fenced at the time of the site inspection



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
Reference		Stage/tilling	Status	Action Required	Comments
	The following hoarding requirements must be complied with: a) no third party advertising is permitted to be displayed on the subject hoarding/fencing;				
	b) the construction site manager must be responsible for the removal of all graffiti from any construction hoardings or the like within the construction area within 48 hours of its application; and				Hoarding surrounds the site and
C26	c) the applicant must submit a hoarding application to Council for the installation of any hoardings over Council footways or road reserve.		С		the construction site was fenced at the time of the site inspection
C27	The public way, being land owned by Council or a Government agency (outside of any construction works zone), must not be obstructed by any materials, vehicles, refuse, skips or the like, under any circumstances. Non-compliance with this requirement will result in the issue of a notice by the relevant Authority to stop all works on site.		С		The public pathway was not obstructed on the date of the site inspection
	At least 48 hours before the commencement of construction until the completion of all works under this consent, or such other time as agreed by the Secretary, the Applicant must:				
	a) make the following information and documents (as they are prepared, obtained or approved) publicly available on its website:				
	i) the documents referred to in condition A2 of this consent;				
	ii) all current statutory approvals for the development;				
	iii) all approved strategies, plans and programs required under the conditions of this consent;				
	iv) regular reporting on the environmental performance of the development in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent;				
	v) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;				
	vi) a summary of the current stage and progress of the development;				
	vii) contact details to enquire about the development or to make a complaint;				
	viii) a complaints register, updated monthly;			FDC to provide	
C28	ix) audit reports prepared as part of any independent environmental audit of the development and the Applicant's response to the recommendations in any audit report;		NC	link to where this information will be	This information was not found to be publicly available at the time of the audit.



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
Reference	x) any other matter required by the Secretary; and	Stuge/ tilling	Status	Action Required	Comments
	b) keep such information up to date, to the satisfaction of the Secretary.				
	Note: This condition does not require any confidential information to be made available to the public.				
C29	Within 24 hours of the occurrence of an incident that causes (or may cause) significant harm to the environment, the Applicant must notify the Secretary and any other relevant agencies of the incident in accordance with condition no. A15		NT		
C30	Within seven days of the detection of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested in accordance with condition no. A16.		NT		
C31	The Applicant must provide regular (six monthly) reporting on any environmental performance required by the development consent for the development on its project website, in accordance with the reporting arrangements in any plans or other documents approved under the conditions of this consent.		NT		
C32	The Applicant must ensure that all of 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.		NA		Not audited as construction had not commenced on site at the time of the site audit
C33	Construction Compliance Reports must be submitted to the Department at compliance@planning.nsw.gov.au for information every six months from the date of the commencement of construction, for the duration of construction. The Construction Compliance Reports must provide details on the compliance performance of the development for the preceding six months and must be submitted within one month following the end of each six month period for the duration of the construction of the development, or such other timeframe as required by the Secretary.		NT		
	The Construction Compliance Reports must include:				
	a) a results summary and analysis of environmental monitoring;				
	b) the number of any complaints received, including a summary of main areas of complaint, action taken, response given and proposed strategies for reducing the recurrence of such complaints;				
C34	c) details of any review of the CEMP and associated sub-plans as a result of construction carried out during the reporting period;		NT		



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	d) a register of any modifications undertaken and their status;				
	e) results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit;				
	f) a summary of all incidents notified in accordance with this consent; and				
	g) any other matter relating to compliance with the terms of this consent or as requested by the Secretary.				
	Unless the Applicant and the applicable authority agree otherwise, the Applicant must:				
	a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by carrying out the development; and				
C35	b) relocate, or pay the full costs associated with relocating, any infrastructure that needs to be relocated as a result of the development.		NT		
SSD 7984 consen	t requirements PART D Prior to occupation or commencement of use				
	A Stormwater Quality Management Plan (SQMP) is to be prepared to ensure proposed stormwater quality measures remain effective. The SQMP must contain the following:				
	a) maintenance schedule of all stormwater quality treatment devices;				
	b) record and reporting details;				
	c) waste management and disposal;				
	d) traffic control measures (if required);				
	e) relevant contact information;				
	f) renewal, decommissioning and replacement timelines and activities of all				
	stormwater quality treatment devices; and				
	g) Work Health and Safety requirements.				
D1	Details demonstrating compliance are to be submitted for the approval of the Certifying Authority prior to occupation of the building.		NA		
	Following completion, installation and testing of all the mechanical ventilation systems, the Applicant must provide evidence for the approval of the Certifying Authority, prior to occupation of the building, that the installation and performance of the mechanical systems complies with:				
D2	a) the BCA;		NA		



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	b) AS 1668.2-2012 The use of air-conditioning in buildings – Mechanical ventilation in buildings and other relevant codes;				
	c) the development consent and any relevant modifications; and				
	d) any dispensation granted by the NSW Fire Brigade.				
D3	The cost of repairing any damage caused to Council or other Public Authority's assets in the vicinity of the Subject Site as a result of construction works associated with the approved development is to be met in full by the Applicant prior to occupation of the building.		NA		
D4	The Applicant must submit to the Certifying Authority a Site Audit Report and Site Audit Statement prepared by an EPA accredited site auditor, prior to occupation of the building. The Site Audit Report and Site Audit Statement must verify that the land is suitable for the uses proposed as part of this consent		NA		
D5	A Section 73 Compliance Certificate under the Sydney Water Act 1994 must be obtained from Sydney Water Corporation and submitted to the Certifying Authority prior to occupation of the building. Application must be made through an authorised Water Servicing Coordinator. Please refer to the "Your Business" section of the web site www.sydneywater.com.au then follow the "e-Developer" icon or telephone 13 20 92 for assistance.		NA		
	Prior to occupation of the building:				
	a) The Applicant must engage a suitably qualified person to prepare a Post-Construction Dilapidation Report at the completion of the construction works. The report is to ascertain whether the construction works created any structural damage to adjoining buildings or infrastructure.				
	b) The report is to be submitted for the approval of the Certifying Authority. In ascertaining whether adverse structural damage has occurred to adjoining buildings or infrastructure, the Certifying Authority must:				
	i) compare the Post-Construction Dilapidation Report with the Pre- Construction Dilapidation Report required by these conditions; and				
	ii) where relevant, have written confirmation from the relevant authority that there is no adverse structural damage to their infrastructure and roads.				
D6	c) A copy of this report must be submitted to Council.		NA		
D7	Prior to occupation of the building and if required, a Fire Safety Certificate must be obtained for all the Essential Fire or Other Safety Measures forming part of this		NA		



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
Reference	consent. A copy of the Fire Safety Certificate must be submitted to the relevant authority and Council. The Fire Safety Certificate must be prominently displayed in the building.	Stage/tilling	Status	Action Required	Comments
D8	The Applicant must ensure that a rainwater reuse/harvesting system for the Development is developed for the site. A rainwater re-use plan is to be prepared and certified by an experienced hydraulic engineer. A signed works-as-executed Rainwater Re-use Plan is to be provided to the Certifying Authority prior to occupation of the building.		NA		
D9	A Structural Inspection Certificate or a Compliance Certificate must be submitted for the approval of the Certifying Authority prior to occupation of the building. A copy of the Certificate with an electronic set of final drawings (contact approval authority for specific electronic format) must be submitted to the Secretary and Council after: a) the site has been periodically inspected and the Certifier is satisfied that the structural works are deemed to comply with the final design drawings; and b) the drawings listed on the Inspection Certificate have been checked with those listed on the final Design Certificate/s.		NA		
D10	The Applicant is to obtain a certificate from a suitably qualified tradesperson, certifying that the kitchen, food storage and food preparation areas have been fitted in accordance with the AS 4674 <i>Design, construction and fit-out of food premises</i> . The Applicant shall provide evidence of receipt of the certificate to the satisfaction of the Certifying Authority prior to the commencement of the building(s) or commencement of the use.		NA		
D11	Wayfinding signage must be integrated at all entry and exit points and is to be installed prior to occupation of the building		NA		
D12	CCTV and suitable lighting must be provided on the external perimeter of the building prior to occupation of the building.		NA		
	Prior to occupation or commencement of use of the building, an accurate 1:500 scale model of the development as constructed must also be submitted to Council for placement in the City Model at Town Hall House and the City Exhibition Space. The model is required to:				
	a) be constructed in accordance with the Model Specifications available online at www.cityofsydney.nsw.gov.au/Development/DevelopmentApplicationGuide/Prepar ingandLodgingaDA.asp. Council's model maker must be consulted prior to construction of the model for Town Hall House. The Manager of Customs House				
D13	must be consulted prior to the construction of the model for City Exhibition Space;		NA		



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	b) comply with all of the conditions of the development consent; and				
	c) be amended to reflect any further modifications to the approval that affect the				
	external appearance of the building				
	a) Prior to the commencement of use of the building, an accurate 1:1 electronic				
	CAD model of the completed development must be submitted to Council for the				
	electronic Visualisation City Model.				
	b) The data required to be submitted within the surveyed location must include and				
	identify:				
	i) building design above and below ground in accordance with the development				
	consent;				
	ii) all underground services and utilities, underground structures and basements,				
	known archaeological structures and artefacts; and				
	iii) a current two points on the site boundary clearly marked to show their Northing				
	and Easting MGA (Map Grid of Australia) coordinates, which must be based on				
	Established Marks registered in the Department of Lands and Property				
	Information's SCIMS Database with a Horizontal Position Equal to or better than Class C.				
	The data is to be submitted as a DGN or DWG file on a Compact Disc. All modelling				
	is to be referenced to the Map Grid of Australia (MGA) spatially located in the Initial				
	Data Extraction file.				
	c) The electronic model must be constructed in accordance with the City's 3D CAD				
	electronic model specification. The specification is available online at				
	http://www.cityofsydney.nsw.gov.au/development/application-				
	guide/applicationprocess/model-requirements Council's Modelling staff should be				
	consulted prior to creation of the model. The data is to comply with all of the				
D14	conditions of the development consent		NA		
	The external walls of the building, including additions to existing buildings, must				
	comply with the relevant requirements of the NCC. Prior to occupation, the				
	Applicant must provide the Certifying Authority with documented evidence that the				
	products and systems used in the construction of external walls, including finishes				
	and claddings such as synthetic or aluminium composite panels, comply with the				
	relevant requirements of the NCC as built.				
	The Applicant must provide a copy of the documentation given to the Certifying				
D1F	Authority to the Secretary within seven days after the Certifying Authority accepts		N/A		
D15	it.	1	NA		



			Compliance					
Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments			
Environmental Objec	invironmental Objectives and Targets							
CEMP 1.5	Aspect Objective Waste To minimise waste going to landfill Sediment & Erosion Control To prevent sediment from entering waterways or stormwater Water Quality To prevent contamination of water ways Noise & Vibration To minimise noise and vibration Dust To limit dust	Construction						
Environmental Action	ns and monitoring table							
Dust generation(General)	 Install shade cloth on perimeter fencing Vehicle corridors will be clearly identified and restricted to control vehicle access onsite. Limit vehicle speed onsite to 10km/hr Fixed and mobile (water tanker) water sprays Reduce work activities /stop work during moderate to high wind velocity periods. Maintain equipment. Smokey plant to be stopped until repair works completed. Turn off vehicle engines whilst not in use (no long periods of idling) 	Daily/Weekly						
Dust Generation (demolition)	Breakers and crushing equipment to be fitted with dust filtration equipment or water sprays to control dust emissions.	Daily/Weekly						
	 Minimise areas of site disturbed and stage works where possible. Dust suppression strategies to be used, i.e. water sprays, soil binders, hydromulching, controlled speed onsite, roadbase + shaker grids. Stockpiled topsoils and rubble will be restricted to 4m high. Stabilise if insitu for >4-6months. 							
Dust Generation (Construction)	• On site drilling or coring operations will be undertaken by equipment fitted with air filtration equipment.	Daily/Weekly						
Odour	If odorous materials uncovered, recover immediately. Seek advice from consultant regarding soil /materials management.	Daily						
Emissions to Air	Ensure machinery is maintained correctly	Daily						
Stormwater (Discharge from	Water quality to meet ANZECC Water Quality Guidelines.	Daily/Weekly						



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
sedimentation	☑ PH 6.5- 8.5, Turbidity <50NTU, No visible oil & grease			, , , , , , , , , , , , , , , , , , , ,	
basins, flooding)	Obtain advice for use of flocculants to settle sediment from water.				
	Sedimentation pond to be maintained at low levels to ensure capacity during rainfall event.				
	DO NOT DISCHARGE IF CONTAMINANTS SUSPECTED. Obtain advice.				
	• Temporary drainage systems will be established to divert clean waters around the land development areas as appropriate.				
	Erect silt fences, bunds and construct swale drains.				
	Inspect at least weekly & after rainfall				
	Maintain and/or replace as required.				
	Street sweepers will be employed on regular basis				
	Install erosion and sediment controls before work starts.				
	Leave as much vegetation as possible.				
	• Install temporary fences to define 'no go' areas in those areas that are not to be disturbed. Include the area under the canopy of trees so that tree roots will not be damaged by soil compaction.				
	• Divert run-off from upslope away from the site, but ensure that you do not flood your neighbours. For example, dig drainage channels (catch drains sized to accommodate the upslope catchment).				
	Install sediment controls downslope of the site to catch sediment.				
	Check the erosion and sediment controls every day and keep them in good condition.				
	• Leave or lay a kerbside turf strip (for example, the nature strip) to slow the speed of water flows and to trap sediment.				
	• Limit vehicle entry and exit to one point, and lay geotextile and blue metal to stabilise it for all-weather access.				
	Clearly mark the access point and give an access map to all suppliers.				
	Protect all drains with a gravel sausage made from geotextile filled with blue metal.				
Adjoining waterways	• Save the topsoil and stockpile it for use later in revegetation. Never place it around trees as this will kill them.				
(dewatering, soil erosion & runoff)	• Store all stockpiles and building materials behind sediment fences. Cover them with plastic to prevent erosion by wind.	Daily/Weekly			



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	• Get council approval before placing stockpiles or other materials on the nature strip or footpath.				
	\bullet Connect downpipes from the guttering to the stormwater drain as soon as the roof goes on.				
	• Build a dam below the area used for cutting tiles, concrete and bricks.				
	• Surround the wash-out area with a sediment fence that slows down the water flow. Site this area upslope of another sediment control.				
	• Fill in all trenches immediately after services have been laid.				
	• Spread the topsoil back when the work is finished and revegetate the site as soon as possible to control erosion.				
	• Remove the sediment and erosion controls only after this is done.				
	• Sweep the road and footpath every day. Washing down is unacceptable.				
	• Never place any materials in the gutter or on the road. You will be fined for this.				
	• Filter or settle-out all water pumped off the site. The water must be clear before it enters the stormwater system or creeks. Gypsum can be applied to muddy (turbid) water to help clay particles settle				
	Comply with the conditions of the trade waste consent or permit, or the local council approval, including acceptance standards				
Sewer (Trade	• No paints or other chemical to be poured down drains.				
Waste)	• If required, obtain trade waste licence for discharge or local council approval	Daily/Weekly			
	• Stop work if unexpected potentially contaminated soils are encountered.				
	• Obtain waste classification from consultant in accordance with OEH\EPACW\EPA guidelines Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes (June 2004) www.environment.nsw.gov.au/waste/envguidlns/index.htm .				
	• Where required a Remediation Action Plan will be developed and implemented.				
	• Sign off by Site Auditor may be required to validate cleanup.				
Land (Acid sulphate soils,	• Any groundwater or ponded rainwater will be tested and classified by consultants prior to disposal.				
contaminated soils, imported fill)	• Check geotech requirements. Ensure soil classification suitable for land use ie. Schools, residential, commercial etc.	As required			



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
Resources – water,	• For design and construct jobs, refer to the design specification for ESD requirements and product choices.				
materials, energy	Buy local wherever possible to reduce impacts of transport on environment.	Daily/Weekly			
	Refer to DA for noise restrictions and working hours.				
	Use hoarding or acoustic mats as required.				
	Situate generators and plant away from sensitive receivers.				
	Turn off machinery. Maintain equipment and stop noisy plant until repaired.				
Noise	No early deliveries.	Daily/Weekly			
	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.				
Vibration	Obtain advice if required	Daily/Weekly			
	Provide information (e.g. Signage, letterbox drops) to community on programmed works				
	Provide contact name for inquires.				
	Advice locals of "noisy" work.				
	• If required in noise sensitive areas and/or in response to complaints, engage consultants to undertake monitoring at nominated receivers.				
Community Concerns	• 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.	Daily/Weekly			
	• Review planning documentation to determine the presence of any protected, threatened or significant flora. Obtain approvals as required.				
	Engage aborist to develop tree management plan or refer DA and aborist reports.				
	Education and training at site toolbox meetings and induction.				
	Report all sightings to the site manager.				
	Fence or barricade protected flora at the drip zone. Erect Keep Out signage.				
	Do not stack materials under/against trees.				
Flora	• The potential for reuse of vegetative wastes by mulching, chipping or on-site placement of trunks or limbs shall be reviewed for each project.	Daily/Weekly			



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	All native animals protected.				
	• Review planning documentation to determine the presence of any protected, threatened or significant fauna. Obtain approvals as required.				
	Site rules/induction to include information regarding of the				
Fauna	For injured animals, to relocate call WIRES	Daily/Weekly			
	Hazardous materials surveys to be completed.				
	Materials to be removed prior to demolition				
	• Registers and waste disposal requirements as per WorkCover and OEH\EPACW\EPA requirements for removal, storage, transport and disposal.				
	• General site wastes —use one bin system and sort in contractor's yard to produce quantities of material for recycling, reuse, disposal etc.				
	• Empty drums are to be taken off-site for disposal.				
	• Empty drums shall be crushed prior to recycling/disposal.				
Waste Litter	• Do not overfill skip bins. Provide plenty for use. Cover where potential for windblown litter.	Daily/Weekly			
	Reduce, reuse and then dispose				
	Dispose of hard construction wastes for recycled gravels and sands				
	• Do not send soil to landfill until alternatives for beneficial reuse have been explored as per consultant's advice.				
	Consideration should be given to chipping of the vegetation and reuse				
Landfilling	Reuse packaging to protect works	As required			
	• Chemicals to be stored in bunded areas (impervious + 110% of largest container) away from stormwater drains & pits.				
	• Refer SafeWork NSW Code of Practice for Storage & Handling of Dangerous Goods, OEH\EPACW\EPA Guidelines for Bunding & Spill Management. Appropriate chemicals storage is in conformance with:				
	2 AS 1940 The Storage and Handling of Flammable and Combustible Liquids				
	2 Storage and Handling of Dangerous Goods WorkCover Code of Practice 2005–refer p. 86				
	OEH\EPA requirements				
Chemicals	http://www.environment.nsw.gov.au/water/bundingspill.htm	Daily/Weekly			



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	Ponded water within bunds will not be discharged to stormwater.				
	Fuel and hydraulic leaks to be cleaned up immediately.				
	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 pit for washout, away from stormwater drains. Send back to batch plant where possible.				
	• Concrete cuttings to be contained and wetvac to prevent runoff into stormwater drains.				
	• Storage of bulk fuels (>200L) on site is prohibited. All refuelling shall be undertaken by a mobile facility with appropriate spill control and containment control equipment.				
	• Develop and implement traffic management plans. Submit to local council as required.				
	Signage and notices regarding disruptions.				
	Use crushed concrete, mulches etc along site access roads.				
	Install shakers and wheel wash as required.				
	Organise regular street sweeping.				
	• Haulage routes and rules will be provided to subcontractors prior to commencing on site.				
Traffic	All loads of soil, demolition wastes, general wastes etc are to be tarped	Daily/Weekly			
	• 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.				
Hazardous Materials (Lead paint)	• 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.				



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	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				
	• A licence subcontractor must be used to demolish, remove, repair or disturb asbestos.				
Hazardous Materials	• A WorkCover asbestos licence is required to remove 10 square metres or more of bonded asbestos				
(Asbestos)	A SafeWork licence is required to remove, repair or disturb friable asbestos				
	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 Office of Environment and Heritage.				
	Work in the subject area to cease until specialist advice is obtained.				
	The area will be fenced and signs erected to restrict access.				
Aboriginal heritage	Heritage consultants may be required to provide advice on demolition/construction processes and finishes.				
	Education and training at site toolbox meetings and induction.				
	It is illegal to destroy heritage items.				
	• Check the OEH\EPACW\EPA Aboriginal Heritage Information Management System (AHIMS).				
	Also check the register of the National Estate.				
	Obtain approval from NPWS (Section 90 consent).				
	Any evidence of Aboriginal relics discovered during construction shall be reported to the National Parks and Wildlife Service.				
European heritage	Local Land Council representatives may be required to monitor stripping/excavation.				



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	Work in the subject area to cease until specialist advice is obtained.				
	The area will be fenced and signs erected to restrict access				
	Spill kit onsite.				
	Refer to the MSDS for advice and procedures.				
	• All spills must be reported to the Site Manager & cleaned up. Complete FDC Accident /Incident report.				
	Sediment pond pumped out regularly to maintain capacity in case of emergency				
Emergency Preparedness	• Ensure you know where stormwater drains are and have materials to block them in case of a fire				

SUBPLANS

Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
Waste Managem	ent plan				
2.1	The on-site separation of scrap metals such as aluminium, copper pipe and wire, lead and steel is viable. Bins will be identified clearly on sites to aid in the separation of materials. FDC will work together to reduce waste coming to site.				
2.1	Site conditions permitting separate on-site bins for cardboard and paper are also possible and FDC have committed to provide a paper bin for use on site for this purpose.				
Noise and Vibrati	on Management plan				
5.2 Nose impact predictions	The noise management level is 65dBA LAeq(15min) for residential and education receivers and 70dBA LAeq(15min) for commercial receivers.				
6.1 Construction	a) Construction, including the delivery of materials to and from the site, may only be carried out between the following hours:i) between 7 am and 6 pm, Mondays to Fridays inclusive; and				
hours	ii) between 7.30 am and 3.30 pm, Saturdays.				



		Compliance		
Requirement	Stage/timing	Status	Action Required	Comments
b) No work may be carried out on Sundays or public holidays.				
c) Activities may be undertaken outside of these hours:				
i) if required by the Police or a public authority for the delivery of vehicles, plant or materials; or				
ii) if required in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or				
iii) works are inaudible at the nearest sensitive receivers; or				
iv) if a variation is approved in advance in writing by the Secretary or her nominee.				
d) Notification of such activities must be given to affected residents before undertaking				
Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours:				
a) 9 am to 12 pm, Monday to Friday;				
b) 2 pm to 5 pm Monday to Friday; and				
c) 9 am to 12 pm, Saturday.				
 Implementing quiet work practices – Using equipment in ways to minimise noise, this includes reducing throttle setting and turning off equipment when not being used, i.e. trucks and saws. Distance – Provide as much distance from the noise source to the receivers as possible. Stationary machinery, especially, should be located at the south-eastern border of the site. Maintain equipment – Regularly inspect and maintain equipment to ensure it is in good working order. Also check the conditions of mufflers and keep the cutting saw sharp. Scheduling – Sensitive residential and educational receivers surround the site, therefore further time restrictions for intense work such as the rock breaking, drop sawing and hammer drilling works etc. could be utilised. 				
	 b) No work may be carried out on Sundays or public holidays. c) Activities may be undertaken outside of these hours: i) if required by the Police or a public authority for the delivery of vehicles, plant or materials; or ii) if required in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or iii) works are inaudible at the nearest sensitive receivers; or iv) if a variation is approved in advance in writing by the Secretary or her nominee. d) Notification of such activities must be given to affected residents before undertaking Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours: a) 9 am to 12 pm, Monday to Friday; b) 2 pm to 5 pm Monday to Friday; and c) 9 am to 12 pm, Saturday. Implementing quiet work practices – Using equipment in ways to minimise noise, this includes reducing throttle setting and turning off equipment when not being used, i.e. trucks and saws. Distance – Provide as much distance from the noise source to the receivers as possible. Stationary machinery, especially, should be located at the south-eastern border of the site. Maintain equipment – Regularly inspect and maintain equipment to ensure it is in good working order. Also check the conditions of mufflers and keep the cutting saw sharp. Scheduling – Sensitive residential and educational receivers surround the site, therefore further time restrictions for intense work such as the rock breaking, drop 	b) No work may be carried out on Sundays or public holidays. c) Activities may be undertaken outside of these hours: ii) if required by the Police or a public authority for the delivery of vehicles, plant or materials; or iii) if required in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or iii) works are inaudible at the nearest sensitive receivers; or iv) if a variation is approved in advance in writing by the Secretary or her nominee. d) Notification of such activities must be given to affected residents before undertaking Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours: a) 9 am to 12 pm, Monday to Friday; b) 2 pm to 5 pm Monday to Friday; and c) 9 am to 12 pm, Saturday. Implementing quiet work practices — Using equipment in ways to minimise noise, this includes reducing throttle setting and turning off equipment when not being used, i.e. trucks and saws. Distance — Provide as much distance from the noise source to the receivers as possible. Stationary machinery, especially, should be located at the south-eastern border of the site. Maintain equipment — Regularly inspect and maintain equipment to ensure it is in good working order. Also check the conditions of mufflers and keep the cutting saw sharp. Scheduling — Sensitive residential and educational receivers surround the site, therefore further time restrictions for intense work such as the rock breaking, drop sawing and hammer drilling works etc. could be utilised.	Requirement b) No work may be carried out on Sundays or public holidays. c) Activities may be undertaken outside of these hours: i) if required by the Police or a public authority for the delivery of vehicles, plant or materials; or ii) if required in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or iii) works are inaudible at the nearest sensitive receivers; or iv) if a variation is approved in advance in writing by the Secretary or her nominee. d) Notification of such activities must be given to affected residents before undertaking Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours: a) 9 am to 12 pm, Monday to Friday; b) 2 pm to 5 pm Monday to Friday; and c) 9 am to 12 pm, Saturday. • Implementing quiet work practices — Using equipment in ways to minimise noise, this includes reducing throttle setting and turning off equipment when not being used, i.e. trucks and saws. • Distance — Provide as much distance from the noise source to the receivers as possible. Stationary machinery, especially, should be located at the south-eastern border of the site. • Maintain equipment — Regularly inspect and maintain equipment to ensure it is in good working order. Also check the conditions of mufflers and keep the cutting saw sharp. • Scheduling – Sensitive residential and educational receivers surround the site, therefore further time • restrictions for intense work such as the rock breaking, drop sawing and hammer drilling works etc. could be utilised.	Status



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	 Limiting — Reduce the amount of machines or tools operating simultaneously near the receivers' location. 				
6.3 Best Available Technology Economically Achievable (BATEA) Noise Control	 Substituting quieter equipment – examining different types of machinery that perform the same function and compare the noise level data to select the least noisy machine, examination includes tyre noise, exhaust and compressor/fan noise. For example, rubber wheeled tractors can be less noisy than steel tracked tractors. Adjusting reversing alarms on heavy equipment to make them 'smarter' by limiting the acoustic range to the immediate danger area or a broadband style alarm sometimes referred to as a 'quacker' alarm (See C10. from the Development Consent (Application No. SSD 7894)). High Performance Exhaust Mufflers could be fitted to the 30 and 50-tonne excavators working within the site. Silencers/mufflers are likely to reduce noise emission from 5 to 15dB. Pneumatic equipment is traditionally a problem – select silenced damped bits where possible. 				
	The barrier should have the following properties:				
6.4 acoustic screens	 Material having at least 10 kg/m2 surface density. There should be no gaps or openings at joints in the barrier material. 				
6.5 Vibration Mitigation Control	 Place as much distance as possible between the excavation work and the surrounding pedestrians/properties. Distance is one of the most effective mitigation measures against vibration. Organise high impacting operations so as not to occur in the same time period. Conduct lower impact methods wherever possible, including the following: Orientation of the rock hammer away from property boundaries and into open excavation; and Operate excavator hammering in short bursts only, to reduce amplification of vibrations and the rise 				



		Compliance		
Requirement	Stage/timing	Status	Action Required	Comments
of noise.				
 Unattended noise monitoring be undertaken at a nearby residential receiver either continuously throughout the project or during the first week of the excavation, substructure and structure stages to ensure noise levels are not excessive. Attended short term noise measurements may also be taken during the various stages, to ensure noise levels are complying with the noise criterion. Noise monitoring during high construction activities and/or after a complaint should be undertaken to monitor the noise impact at the affected receiver. Vibration monitoring is not required at the University of Sydney buildings surrounding the site nor the residential buildings across Parramatta Road due to the distance between site and the aforementioned buildings. Vibration monitoring should be undertaken adjacent to the pedestrian walkways surrounding the site should complaints arise. 				
 Provide, reasonably ahead of time, information such as total building time, what works are expected to be noisy, their duration, what is being done to minimise noise and when respite periods will occur. For works outside standard hours, inform affected residents and other sensitive land use occupants between five and 14 days before commencement. Provide information to neighbours before and during construction through media such as letterbox drops, meetings or individual contact. In some areas, the proponent will need to provide notification in languages other than English. A website could also be established for the project to provide information. Use 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 				
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			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	 updates. This signage shall be clearly visible from the outside and include afterhours emergency contact details. Maintain good communication between the community and project staff. Appoint a community liaison officer where required. For larger projects consider a regular newsletter with site news, significant project events and timing of different activities. Provide a toll free contact phone number for enquiries during the works. Facilitate contact with people to ensure that everyone can see that the Site Manager understands potential issues, that a planned approach is in place and that there is an ongoing commitment to minimise noise. 				
Complaint management	 Provide a readily accessible contact point, for example through 24 hour toll free information and complaint's line. Give complaints a fair hearing. Have a documented complaints process, including an escalation procedure so that if a complainant is not satisfied there is a clear path to follow. Call back as soon as possible to keep people informed of action to be taken to address noise problems. Call back at night time only if requested by the complainant to avoid further disturbance. Provide a quick response to complaints, with complaints handling staff having both a good knowledge of the project and ready access to information. Keep a register of any complaints, including details such as date, time, person receiving complaint, complainant's phone number, person referred to, description of the complaint, work area (for larger projects), time of verbal response and timeframe for written response where appropriate 				





8 Appendix 3: Corrective Action Plan for IEA #1

Project: 250048 Chau Chak Wing Museum Revised 19/09/18



Independent Environmental Audit #1 Corrective Action Plan

Project Details							
Project Name:	Chau Chak Wing Mu	seum					
Project Number:	250048						
Project Location:		F21 Chau Chak Wing Museum, Sydney University, University Avenue, Camperdown Campus					
Client:	The University of Syd	dney					
Project Manager:							
Senior Project Manager:	Branko Mihaljevic						
Date work is to commence (approx.)	15/04/2018						
Estimated duration of work	23 Months						
Name of principal contractor:	FDC Construction (NSW) Pty Ltd					
Company address:	22 - 24 Junction Stre	et Forest Lodge	e NSW 2037				
ABN:	72608609427						
Approvals							
Project Manager:		Signature:		Date:			
Senior Project Manager:	Branko Mihaljevic	Signature:	Dio agris	Date: 26/09/18			
Project Director		Signature:		Date:			
General Manager:		Signature:		Date:			
Divisional IMS Manager:		Signature:		Date:			
Distribution:	Client, Principal, Sup	erintendent, De	partment of Planning	& Environment			
Management Plan Revision:							



Rev Date	REVISION DESCRIPTION	PM's INITIALS (acceptance of changes)
26/09/18	A – For Approval	die apriles

All changes to Corrective Action Plan are to be reviewed and approved by the Project Manager.



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1 Introduction:

The purpose of this corrective action plan is to identify, respond and address the non-conformances and recommendations outlined in the 1st independent environmental audit undertaken by NGH Environmental for the Chau Chak Wing Museum Project (SSD 7894).

2 Audit Findings:

Below is a summary of the audit findings and non-compliances, as per NGH Environmental audit report:

Reference	Requirement	Compliance Status	Action Required	Comments
B20	Prior to the commencement of works, a Construction Noise and Vibration Management Plan (CNVMP) must be submitted for the approval of the Certifying Authority. The CNVMP must address, but not be limited to, the following matters where relevant: i) be prepared by a suitably qualified expert; ii) be prepared in consultation with Council and all noise sensitive receivers where noise levels exceed the construction noise management level, in accordance with EPA guidelines; iii) describe the measures that would be implemented to ensure: i. best management practice is being employed; ii. compliance with the relevant conditions of this consent; iv) describe the proposed noise and vibration management measures in detail; v) include strategies that have been developed to address impacts to noise sensitive receivers where noise levels exceed the construction noise management level, for managing high noise generating works; vi) describe the consultation undertaken to develop the strategies in v) above; vii) evaluates and reports on the effectiveness of the noise and vibration management measures; and viii) include a complaints management system that would be implemented for the duration of the construction works. b) The Applicant must submit a copy of the CNVMP to the Department and Council prior to commencement of work.	NC	FDC to provide evidence that the NVMP was prepared in consultation with council It is suggested that the NVMP links to the auditing requirement s in the CEMP, to satisfy the requirement of point vii) of B20. It is also recommend ed that noise monitoring occurs to test compliance with the construction noise goals	li) Although the plan has been provided to council there was no evidence to show it had been prepared in consultation with council. v) the NVMP has identified that the noise management level may be exceeded, strategies are included in table 4.3 and section 6 to reduce this impact vi) The NVMP does not detail the consultation undertaken to develop strategies in v) above



Reference	Requirement	Compliance Status	Action Required	Comments
B26	Prior to the commencement of construction works, or as otherwise agreed by the Secretary, the following must be made available for community enquiries and complaints for the duration of construction: a) a toll-free 24 hour telephone number(s) on which complaints and enquiries about the carrying out of any works may be registered; b) a postal address to which written complaints and enquires may be sent; and c) an email address to which electronic complaints and enquiries may be transmitted.	NC	FDC update the CSMP to include the contact details as required by this condition	A communication and stakeholder management plan has been prepared however it does not include details of • 24 hr toll free number • Postal address for complaints • Email address for complaints It was noted at the site inspection that signage on the hoarding included a contact number. It is also noted that 24 hr contacts are included in Section 1.2 of the CEMP
C28	At least 48 hours before the commencement of construction until the completion of all works under this consent, or such other time as agreed by the Secretary, the Applicant must: a) make the following information and documents (as they are prepared, obtained or approved) publicly available on its website: i) the documents referred to in condition A2 of this consent; ii) all current statutory approvals for the development; iii) all approved strategies, plans and programs required under the conditions of this consent; iv) regular reporting on the environmental performance of the development in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent; v) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; vi) a summary of the current stage and progress of the development;vii)	NC	FDC to provide link to where to the website with the information detailed in C28	This information was not found to be publicly available at the time of the audit.



Reference	Requirement	Compliance Status	Action Required	Comments
	contact details to enquire about the development or to make a complaint; viii) a complaints register, updated monthly; ix) audit reports prepared as part of any independent environmental audit of the development and the Applicant's response to the recommendations in any audit report; x) any other matter required by the Secretary; and b) keep such information up to date, to the satisfaction of the Secretary. Note: This condition does not require any confidential information to be made available to the public.			

Below is a summary of the recommendations, as per NGH Environmental audit report:

Recommendation #	Recommendation
June 2018/01	As required by COA B 8 vii) FDC to provide CEMP Appendix 7 Unexpected find protocol
June 2018/02	As required by B20 FDC to provide evidence that the NVMP was prepared in consultation with council. It is further recommended that the NVMP links to the auditing requirements in the CEMP, to satisfy the requirement of point vii) of COA B20. It is also recommended that noise monitoring occurs to test compliance with the construction noise goals.
June 2018/03	As required by COA B22 (c) FDC to notify RMS TMC of haul routes prior to removing spoil /waste from site.
June 2018/04	FDC update the CSMP to include the contact details as required by COA B26
June 2018/05	It is a requirement of COA C28 that the following information be publicly available on a website: i) the documents referred to in condition A2 of this consent; ii) all current statutory approvals for the development; iii) all approved strategies, plans and programs required under the conditions of this consent; iv) regular reporting on the environmental performance of the development in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent; v) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; vi) a summary of the current stage and progress of the development;vii) contact details to enquire about the development or to make a complaint; viii) a complaints register, updated monthly;



Recommendation #	Recommendation
	ix) audit reports prepared as part of any independent environmental audit of the development and the Applicant's response to the recommendations in any audit report; x) any other matter required by the Secretary; and b) keep such information up to date, to the satisfaction of the Secretary. Note: This condition does not require any confidential information to be made available to the public. FDC to provide (or Sydney University to update their website) to include links and/or the information detailed above.

3 FDC Construction (NSW) Responses:

Below is a summary of FDC Construction's responses to the above mentioned Non-conformances and recommendations as per email correspondence "Re:18-181 ENV Audit and Monitoring report 0602018" on the 20/06/2018:

	Non Conformances:	
Reference	FDC Response	NGH response
B20	Noted, no consultation has been undertaken with Council. However this has been submitted with no comment during the CC1 process, we deem this to satisfy the condition.	CC1 was received on the 08/06/18, thus it is deemed that council approved the NVMP. This non conformance is also closed out in NGH IEA #2.
B26	B26 Noted, please find attached photo of hoarding signage that is installed in 3 x locations. The project enquires & complaints details can be found on the Universities website below: http://sydney.edu.au/museums/ccw-museum/con.shtml	
8	As above, all project information as required by the DA is available on the projects website.	
	Recommendations:	
Reference	FDC Response	
June 2018/01	Please find attached the site safety management plan. And F50 that addresses FDC's unexpected finds protocol.	Closed - This action is deemed to satisfy the NC
June 2018/02	As above in regards to consultation with council. In regards to auditing requirements of the CEMP, noted and agreed. FDC have engaged EMS to complete noise monitoring, the first week of monitoring was completed for week starting Monday 10/09/18 to Monday 17/09/18.	Noted that the NVMP was provided to council as part of the CC process.



June 2018/03	Truck haulage routes were identified in the CTPMP, which was reviewed and approved by RMS, we deem this to satisfy the recommendation.	Closed - This is deemed to satisfy the NC
June 2018/04	Noted, as above we will request that this information is made publically available. Link to be provided by COB Friday 29/06.	

4 FDC Construction (NSW) Responses:

Below is a summary of FDC's response and update on the Non-conformances and recommendations contained in Audit 1:

Non Conformances:				
Reference	Updated Status			
B20	In line with recommendation 01 we have updating the NVMP to include links to the auditing requirements to satisfy point VII – Updated NVMP was provided to the University of Sydney on 10/07/18.			
B28	As mentioned above, all current project documentation is available on the Universities website: http://sydney.edu.au/museums/ccw-museum/con.shtml			
Recommendation 2	CEMP has been updated in line with comments and the NVMP has been linked to the auditing requirements.			

5 Project Innovation:

The CCWM project is dedicated to innovation through the implementation of effective sustainability targets not only during construction, but through smart decision making in the design phase to reduce the impact the building will have on the environment during its life cycle.

This is evident through the projects aim of achieving a "gold star" rating on the Universities sustainability framework.

Examples of innovation and sustainable practices include the projects aim of recycling at least 85% of building and demolition materials by weight and improving building energy performance by 20%.

Project: 250048 Chau Chak Wing Museum Revised 13/09/18



9 Appendix 4: NGH Environmental Independent Environmental Audit #2

Project: 250048 Chau Chak Wing Museum Revised 19/09/18



Audit Report

ENVIRONMENTAL AUDIT REPORT
CHAU CHAK WING MUSEUM – SYDNEY UNIVERSITY

SEPTEMBER 2018



1 INTRODUCTION

1.1 BACKGROUND

FDC construction (FDC) has been contracted by the University of Sydney to construct the Chau Chak Wing Museum(CCWM), University Avenue, Camperdown Campus. The project requirements are as set out in the Principals Project Requirements (PPR) Rev 2 September 2017.

FDC have engaged NGH Environmental to conduct quarterly audits of the project. The audit scope include the requirements of the SSD 7894 Development consent, the Environmental Management Plan Rev D and associated sub plans.

This report details the results of the Second audit for this project. The findings of the audit are summarised in Section 2 and recommendations are made in Section 3. Appendix A includes a checklist of all compliance requirements for the project.

1.2 AUDIT SCOPE

An Audit of FDC's compliance with the environmental management plans and the relevant consent conditions was undertaken. A checklist was compiled during the first audit for this project and was used during this second audit to detail all consent conditions and commitments in the environmental plans and FDCs compliance. The following documents were also reviewed:

- Coffey (July 2018) Groundwater quality testing report
- FDC Chau Chak Environmental Management Plan Rev D July 2018
- Complaints register
- Induction pack
- Toolbox talks (31/8/18, 27/7/18, 7/8/18)
- Weekly inspections (24/8/18, 31/8/18)
- Monthly Health, Safety, Environment and quality audits for June, July and August 2018.
- Email evidence of submission of first independent audit report (email dated 20 June 2018)

The focus of this audit was to check FDC implementation of the EMP and sub plans and compliance with the construction conditions of the SSD 7894.

2 DETAILS OF THE SITE AUDIT

2.1 SITE INSPECTION AND DOCUMENT REVIEW

A site inspection was conducted on 5/09/2018. Present were Natascha Arens (Environmental Auditor) and Harry Moate (Cadet, FDC Construction).

The purpose of site visit was to undertake an inspection of works on site, view the site and access arrangements, gain an understanding of the current scope of the works and exchange documentation for the second audit of the project.

The site was viewed from safe access points. It was noted during the site visit that:

• Hoarding was in place



- Exclusion zones around retain figs were intact and maintained
- Project Contact details, construction hours, contact for complaints was available on signage at the entrance to the site
- The traffic control plan was being implemented
- Spill kits were stocked
- Rumble grids were at the site exit
- Limited mud tracking was occurring despite wet weather
- Rubbish was separated
- The site was maintained and free of litter

2.2 PREVIOUS AUDIT FINDINGS

Reference	Compliance Status	Action Required	Status
B20	NC	FDC to provide evidence that the NVMP was prepared in consultation with council It is suggested that the NVMP links to the auditing requirements in the CEMP, to satisfy the requirement of point vii) of B20. It is also recommended that noise monitoring occurs to test compliance with the construction noise goals	Closed FDC has submitted the NVMP to council with the crown certificate and has received no response and therefore considers that this condition has been met. Noise monitoring is planned for the 10 September to coincide with noisy works (Rock breaking)
C28	NC	FDC to provide link to where to the website with the information detailed in C28	Closed – Sydney university website has been updated to include this information

2.3 CURRENT AUDIT FINDINGS – SUMMARY

The audit found that FDC are complying with the requirements of the management plans and related sub plans. FDC is complying with all consent conditions relevant to construction.

The site is well maintained and regular surveillance and training is occurring.

A review of weekly tool box talks including on 31/8; 27/7/18, 7/8/18 shows that FDC are consistently undertaking these. Tree Protection Zone awareness is included in the toolbox every week as is strict adherence to gate access.

Weekly site inspections occur on Friday with one or two representatives of the subcontractors. The inspections include an audit/review process and give recommendations /actions. A review of actions raised in the checklist on the 24/8/18 and the 31/8/18 found that actions are closed out as evidenced by signed close out sheets.

Monthly safety QA and environmental audits are undertaken. Three audits have been undertaken to date indicating that they are occurring monthly.

The monthly audit includes

- The monthly audit checklist
- A review of all risk assessments to make sure all are still current for that stage of works. Focusing on high risk construction works.



- A review of all high risk activities checking that all relevant procedures are in place and implemented.
- Sub-contractor control, includes a review of all procedures to ensure that they are being implemented
- FDC worker compliance which looks at new training requirements and checks that the F17 weekly WH&S Checklist is being completed.
- Reviews all weekly issues raised in site inspection have been closed out.

3 RECOMMENDATIONS

The table below summarises the recommendations made as a result of this audit.

Recommendation #	Recommendation		
Sept 2018/01	Sydney university to update website to include current complaints register (version on website is currently blank)		
Sept 2018/02	Update EMP appendix list to include Appendix 7.		



APPENDIX A AUDIT PROTOCOL/CHECKLIST

The compliance status for each requirement or commitment has been assessed in accordance with the criteria in Table 1 (DPE 2015).

Table 1 - Compliance assessment criteria

Assessment	Criteria
Compliant (C)	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit.
Not verified (NV)	Where the auditor has not been able to collect sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit. In the absence of sufficient verification the auditor may in some instances be able to verify by other means (visual inspection, personal communication, etc.) that a requirement has been met. In such a situation, the requirement should still be assessed as not verified. However, the auditor could note in the report that they have no reasons to believe that the operation is non-compliant with that requirement.
Non-compliant (NC)	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent of one or more specific elements of the regulatory approval have not been complied with within the scope of the audit.
Administrative non-compliance (ANC)	A technical non-compliance with a regulatory approval that would not impact on performance and that is considered minor in nature (e.g. report submitted but not on the due date, failed monitor or late monitoring session). This would not apply to performance-related aspects (e.g. exceedance of a noise limit) or where a requirement had not been met at all (e.g. noise management plan not prepared and submitted for approval).
Not triggered (NT)	A regulatory approval requirement has an activation or timing trigger that had not been met at the time of the audit inspection, therefore a determination of compliance could not be made.
Observation (O)	Observations are recorded where the audit identified issues of concern which do not strictly relate to the scope of the audit or assessment of compliance. Further observations are considered to be indicators of potential non-compliances or areas where performance may be improved.
Note	A statement or fact, where no assessment of compliance is required.

In addition, where a particular condition was not audited as it is outside of the scope of this particular audit the code not applicable (NA) has been used.



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
SSD 7984 conser	nt requirements 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.	ALL	С		Construction has commenced and all reasonable and feasible measures are being implemented to minimise harm.
	The development may only be carried out:				
	a) in compliance with the conditions of this consent;				
	b) in accordance with all written directions of the Secretary;				
	c) generally in accordance with the EIS as amended by the (response to Submissions) RtS and RtS Supplementary Information; and				All conditions relevant to the preconstruction stage of works
A2	d) in accordance with the approved plans in the table below (refer to SSD 7984)	ALL	Note		have found to be compliant
	Consistent with the requirements in this consent, the Secretary may make written directions to the Applicant in relation to:				
	a) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the Secretary; and				
	b) the implementation of any actions or measures contained in any such document referred to in (a) above.				
	The conditions of this consent and directions of the Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document listed in condition A2(c) or A2(d). In the event of an inconsistency, ambiguity or conflict between any of the documents listed in condition A2(c) and A2(d), the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.				
	Note: For the purposes of this condition, there will be an inconsistency between documents if it is not				
	possible to comply with both documents, or in the case of a condition of consent or direction of the Secretary,				
A3	and a document, if it is not possible to comply with both the condition or direction, and the document.	ALL	Note		



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
A4	If there is any inconsistency between the plans and documentation referred to above the most recent document shall prevail to the extent of the inconsistency. However, conditions of this consent prevail to the extent of any inconsistency. Where there is an inconsistency between approved elevations and plans, the elevations prevail.	ALL	Note		
	In order to ensure the design quality excellence of the development is retained:				
	a) the design architect (Johnson Pilton Walker) is to have direct involvement in the design documentation, contract documentation and construction stages of the project;				The scope of this Second audit is
	b) the design architect is to have full access to the site and is to be authorised by the Applicant to respond directly to the consent authority where information or clarification is required in the resolution of the design issues throughout the life of the project; and				primarily to check the compliance of the conditions of approval relevant to this stage of works and Environmental management plans
A5	c) evidence of the design architect's commission is to be provided to the Secretary prior to certification of any building works, except for site preparatory works.	ALL	NA		and sub plans with this approval. A5 was not audited.
					The scope of this second audit is primarily to check the compliance of the Environmental management plans and sub plans
A6	The design architect for the project must not change without prior approval of the Secretary.	ALL	NA		with this approval. A6 was not audited.
	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 approval; and				
	b) provide details of the consultation undertaken including:				
	i) a description of how matters raised by those consulted have been resolved to the satisfaction of both the Applicant and the party consulted; and				
A7	ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.	ALL	Note		
A8	This consent will lapse five years from the date of consent unless the works associated with the development have physically commenced.	ALL	Note		



6

Reference	Demilianant	Stage/timing	Compliance Status	Action Required	Comments
Reference	Requirement	Stage/tilling	Status	Action Required	Comments
A9	The Applicant must comply with all relevant prescribed conditions of development consent under Part 6, Division 8A of the EP&A Regulation.	ALL	Note		
A10	In the event of a dispute between the Applicant and a public authority, in relation to an applicable requirement in this approval or relevant matter relating to the Development, either party may refer the matter to the Secretary for resolution. The Secretary's resolution of the matter shall be binding on the parties.	ALL			
A11	For work costing \$25,000 or more, a Long Service Levy must be paid. For further information please contact the Long Service Payments Corporation Helpline on 131 441.	ALL	С		A copy of the Long Service Levy receipt was provided for the audit. Receipt no 0033544, providing evidence that the sum of \$130,310 was paid to the DPE dated 15.5.2018.
A12	Any advice or notice to the consent authority shall be served on the Secretary.	ALL	Note		
	Within three months of: a) the submission of a compliance report under conditions of this consent; b) the submission of an incident report under conditions of this consent; c) the submission of an Independent Environmental Audit under conditions of this consent; d) the approval of any modification to the conditions of this consent; or e) the issue of a direction of the Secretary under condition A3, the strategies, plans and programs required under this consent must be reviewed, and the Department		С		FDC have fulfilled their role in providing the first audit report to Sydney University
A13	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 and programs required under this consent must be revised and submitted: a) to the Secretary's satisfaction if previously approved by the Secretary; or b) to the Secretary for information. Where revisions are required, the revised document must be submitted to the Secretary within six weeks of the review. Note: This is to ensure the strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.	ALL	NT		Only minor amendments have been made to environmental management documents,



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
A15	The Department must be notified in writing to compliance@planning.nsw.gov.au within 24 hours 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.	ALL	С		Included in 3.8.2 of the CEMP. No incidents have occurred to date
	a) A written incident notification must also be emailed to the Department 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 forms the view that an incident has not occurred.				
	b) Written notification of an incident must:				
	i) identify the development and application number;				
	ii) provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);				
	iii) identify how the incident was detected;				
	iv) identify when the Applicant became aware of the incident;				
	v) identify any actual or potential non-compliance with conditions of consent;				
	vi) describe what immediate steps were taken in relation to the incident;				Included in 3.8.2 of the CEMP
	vii) identify further action(s) that will be taken in relation to the incident; and				No incidents have occurred to
A16	viii) identify a project contact for further communication regarding the incident.	ALL	С		date
	a) Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Secretary, the Applicant must provide the Secretary and any relevant public authorities (as determined by the Secretary) with a detailed report on the incident addressing all requirements for such reporting set out in A15(b), and such further reports as may be requested.				
	b) The Incident Report must include:				
	i) a summary of the incident;				
	ii) outcomes of an incident investigation, including identification of the cause/s of the incident;				
	iii) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and				Included in 3.8.2 of the CEMP No incidents have occurred to
A 17	iv) details of any communication with other stakeholders regarding the incident.	ALL	С		date.



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Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
					Included in 3.8.2 of the CEMP The previous audit reported noted
A18	The Department must be notified in writing to compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of any non-compliance. The Certifying Authority must also notify the Department in writing to compliance@planning.nsw.gov.au within seven days after they identify any noncompliance.	ALL	С		some minor non-conformances. This report was provided to the Sydney University. The scope of this audit is to check compliance by FDC.
A19	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.	ALL	NT		Included in 3.8.2 of the CEMP As above
	Any condition of this 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 2B of Part 6 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification and independent environmental auditing.				
A20	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.	ALL	Note		
	References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.				
A21	However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.	ALL	Note		



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
B1	The Department, Certifying Authority and Council must be notified in writing of the dates of commencement of physical work and operation at least 48 hours before those dates. If the construction or operation of the development is to be staged, the Department, Certifying Authority and Council must be notified in writing at least 48 hours before the commencement of each stage, of the date of commencement and the development to be carried out in that stage.	Pre construction	C	Action Required	Notice of commencement was provided to all relevant parties on the 1 June 2018, aside from the erection of hoarding and office demountable this was prior to the commencement of physical works.
В2	Plans certified in accordance with section 109R of the EP&A Act are to be submitted to the Certifying Authority and the Department prior to commencement of each stage of the construction works and must include details as required by any of the following conditions.	Pre construction	С		Approved plans were issued with the SSD dated 23 February 2018 and issued to compliance @DPE on the 5 June 2018. the certifying authority signed off on the Crown certificate and all associated documentation for this stage of works on the 8/6/18.
В3	The building materials used on the facades of the structure must have a maximum normal specular reflectivity of visible light of 20 per cent and must be designed so as not to result in glare that causes any discomfort or threatens the safety of pedestrians or drivers. A statement demonstrating compliance with these requirements or where compliance cannot be met a report that demonstrates that the exceedance would not result in glare that causes any discomfort or threatens the safety of pedestrians or drivers is to be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works.	Pre construction	NT		The scope of this second audit is primarily to check the compliance of the conditions of approval relevant to this stage of works and Environmental management plans and sub plans with this approval. This condition will be addressed in Crown Certificate 2 (CC2) – Superstructure and Façade
В4	All outdoor lighting within the site must comply with, where relevant, AS 1158.3.1:2005 Pedestrian Area (Category P) Lighting and AS 4282-1997 Control of the Obtrusive Effects of Outdoor Lighting. Details demonstrating compliance with these requirements are to be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works.	Pre construction	NT		The scope of this second audit is primarily to check the compliance of the conditions of approval relevant to this stage of works and Environmental management plans and sub plans with this approval. This condition will be addressed in Crown Certificate 2 (CC2) – Superstructure and Façade
B5	The works that are the subject of this application must be designed and constructed to provide access and facilities for people with a disability in	Pre construction	NT		The scope of this second audit is primarily to check the compliance



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	accordance with the Building Code of Australia (BCA). The Certifying Authority must ensure that evidence of compliance with this condition from an appropriately qualified person is provided and that the requirements are referenced on any certified plans.				of the conditions of approval relevant to this stage of works and Environmental management plans and sub plans with this approval. This condition will be addressed in Crown Certificate 2 (CC2) – Superstructure and Façade
	Plans demonstrating compliance with the following requirements for bicycle parking shall be submitted to the satisfaction of the Certifying Authority:				
	a) the provision of a minimum of eight bicycle parking spaces are to be provided at the front entrance of the museum for visitors and a minimum of four bicycle parking spaces are to be located in the loading dock for staff;				The scope of this first audit is primarily to check the compliance
	b) the layout, design and security of bicycle facilities shall comply with the all applicable minimum requirements of AS 2890.3:2015 Parking facilities – Bicycle parking, and be located in secure, convenient and accessible areas close to the main entries and incorporating adequate lighting and opportunities for passive surveillance; and				of the conditions of approval relevant to this stage of works and Environmental management plans and sub plans with this approval. This condition will be addressed in
B6	c) the provision of end-of-trip facilities for staff including shower, changeroom and lockers.	Pre construction	NT		Crown Certificate 2 (CC2) – Superstructure and Façade
В7	Soil erosion and sediment control measures must be designed in accordance with the document Managing Urban Stormwater – Soils & Construction Volume 1 (Landcom, 2004). Details are to be submitted to the satisfaction of the Certifying Authority prior to the commencement of any works.	Pre construction	С		Soil erosion and sediment control measures have been designed in accordance with the condition and are detailed in the plan prepared by Northrop (C12.01 CONCEPT SEDIMENT AND EROSION CONTROL PLAN) and submitted with CC1.
В8	The Applicant is to engage a qualified structural engineer to prepare a Pre-Construction Dilapidation Report detailing the current structural condition of all retained existing and adjoining buildings within the site, infrastructure and roads within the 'zone of influence'. Any entry into private land is subject to the consent of the owner(s) and any inspection of buildings on privately affected land must include details of the whole building where only part of the building falls within the 'zone of influence'. The report must be submitted to the satisfaction of the	Pre construction	С		Dilapidation reports have been prepared for: Roads and Footpaths 3 May 2018; Includes portion of Parramatta Road and internal driveways, footpaths,



Requirement	Stage/timing	Compliance Status	Action Required	Comments
Certifying Authority prior to the commencement of any works. A copy of the report is to be forwarded to Council. In the event that access for undertaking a Pre-Construction Dilapidation Report is denied by an adjoining owner, the applicant must demonstrate, in writing, to the satisfaction of the Secretary that all reasonable steps have been taken to obtain access and advise the affected property owner of the reason for the report and that these steps have failed.				retaining walls, garden walls, stairs, etc. Baxter Lodge3 May 2018; The Quad/ Great Hall 3 May 2018Eastern portion and Hall, external walls and common areas only Fischer Library 3 May 2018; Not including the Stacks The dilapidation report prepared by Cardno (8 May 2018) was reviewed during the audit
Plans demonstrating compliance with the following traffic and parking requirements must be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works: a) all vehicles should enter and leave the Subject Site in a forward direction. In the event that site constraints do not permit heavy rigid vehicles to enter and leave in a forward direction, then all reversing movements should be undertaken under the control of certified traffic controllers to ensure public safety when vehicles are reversing; b) all construction vehicles (excluding worker vehicles) are to be contained wholly within the site or designated work zone and vehicles must enter the site and/or work zone before stopping; c) all works/ regulatory signposting associated with the proposed development must be at no cost to the relevant roads authority; and d) the swept path of the longest vehicle entering and exiting the Subject Site in association with the new work, as well as manoeuvrability through the Subject Site, must be in accordance with AUSTROADS. In this regard, a plan must be submitted to the certifying authority for approval, which shows that the proposed				The Construction Traffic Management Plan Rev 4 was provided with CC1. The plan details a) Figure 4 details vehicle movement on site, Section 3.7 addresses truck sept paths and turning movements b) Section 1.9, Section 3.7 and Site layout plans detail marshalling and parking requirements and include the requirement for vehicles to remain within the site. c) FDC is responsible for
_	In the event that access for undertaking a Pre-Construction Dilapidation Report is denied by an adjoining owner, the applicant must demonstrate, in writing, to the satisfaction of the Secretary that all reasonable steps have been taken to obtain access and advise the affected property owner of the reason for the report and that these steps have failed. Plans demonstrating compliance with the following traffic and parking requirements must be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works: a) all vehicles should enter and leave the Subject Site in a forward direction. In the event that site constraints do not permit heavy rigid vehicles to enter and leave in a forward direction, then all reversing movements should be undertaken under the control of certified traffic controllers to ensure public safety when vehicles are reversing; b) all construction vehicles (excluding worker vehicles) are to be contained wholly within the site or designated work zone and vehicles must enter the site and/or work zone before stopping; c) all works/ regulatory signposting associated with the proposed development must be at no cost to the relevant roads authority; and d) the swept path of the longest vehicle entering and exiting the Subject Site in association with the new work, as well as manoeuvrability through the Subject Site, must be in accordance with AUSTROADS. In this regard, a plan must be submitted	In the event that access for undertaking a Pre-Construction Dilapidation Report is denied by an adjoining owner, the applicant must demonstrate, in writing, to the satisfaction of the Secretary that all reasonable steps have been taken to obtain access and advise the affected property owner of the reason for the report and that these steps have failed. Plans demonstrating compliance with the following traffic and parking requirements must be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works: a) all vehicles should enter and leave the Subject Site in a forward direction. In the event that site constraints do not permit heavy rigid vehicles to enter and leave in a forward direction, then all reversing movements should be undertaken under the control of certified traffic controllers to ensure public safety when vehicles are reversing; b) all construction vehicles (excluding worker vehicles) are to be contained wholly within the site or designated work zone and vehicles must enter the site and/or work zone before stopping; c) all works/ regulatory signposting associated with the proposed development must be at no cost to the relevant roads authority; and d) the swept path of the longest vehicle entering and exiting the Subject Site in association with the new work, as well as manoeuvrability through the Subject Site, must be in accordance with AUSTROADS. In this regard, a plan must be submitted to the certifying authority for approval, which shows that the proposed	In the event that access for undertaking a Pre-Construction Dilapidation Report is denied by an adjoining owner, the applicant must demonstrate, in writing, to the satisfaction of the Secretary that all reasonable steps have been taken to obtain access and advise the affected property owner of the reason for the report and that these steps have failed. Plans demonstrating compliance with the following traffic and parking requirements must be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works: a) all vehicles should enter and leave the Subject Site in a forward direction. In the event that site constraints do not permit heavy rigid vehicles to enter and leave in a forward direction, then all reversing movements should be undertaken under the control of certified traffic controllers to ensure public safety when vehicles are reversing; b) all construction vehicles (excluding worker vehicles) are to be contained wholly within the site or designated work zone and vehicles must enter the site and/or work zone before stopping; c) all works/ regulatory signposting associated with the proposed development must be at no cost to the relevant roads authority; and d) the swept path of the longest vehicle entering and exiting the Subject Site in association with the new work, as well as manoeuvrability through the Subject Site, must be in accordance with AUSTROADS. In this regard, a plan must be submitted to the certifying authority for approval, which shows that the proposed	Is to be forwarded to Council. In the event that access for undertaking a Pre-Construction Dilapidation Report is denied by an adjoining owner, the applicant must demonstrate, in writing, to the satisfaction of the Secretary that all reasonable steps have been taken to obtain access and advise the affected property owner of the reason for the report and that these steps have failed. Plans demonstrating compliance with the following traffic and parking requirements must be submitted to the satisfaction of the Certifying Authority prior to the commencement of above ground works: a) all vehicles should enter and leave the Subject Site in a forward direction. In the event that site constraints do not permit heavy rigid vehicles to enter and leave in a forward direction, then all reversing movements should be undertaken under the control of certified traffic controllers to ensure public safety when vehicles are reversing; b) all construction vehicles (excluding worker vehicles) are to be contained wholly within the site or designated work zone and vehicles must enter the site and/or work zone before stopping; c) all works/ regulatory signposting associated with the proposed development must be at no cost to the relevant roads authority; and d) the swept path of the longest vehicle entering and exiting the Subject Site in association with the new work, as well as manoeuvrability through the Subject Site, must be in accordance with AUSTROADS. In this regard, a plan must be submitted to the certifying authority for approval, which shows that the proposed



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
					d) Swept path scenarios are detailed in Section 3.7.
	Prior to the commencement of works, the Applicant must submit for the approval of the Certifying Authority structural drawings prepared and signed by a suitably qualified practising Structural Engineer that demonstrates compliance with:			Structural plans to	
	a) the relevant clauses of the BCA; and			be submitted with	Structural plans to be submitted
B10	b) this development consent.	Pre construction	NT	CC2	with CC#2
	Prior to the commencement of works, the Applicant must demonstrate that the mechanical plant and equipment is designed to meet the following criteria:				
	a) does not generate noise (measured at the most affected or potentially affected residence) that exceeds:				
	i) 53 dBA LAeq(period) for the daytime and evening periods, and				
	ii) 45 dBA LAeq(15minute) for the night time period; and				These targets relate to operational noise. The stage of works that are
	b) does not generate noise that exhibits tonal, low frequency or other annoying characteristics.				currently being planned is the substructure and covered under
B11	Details are to be provided by a qualified acoustic engineer to the Certifying Authority prior to commencement of work.	Pre construction	NT		CC#1. This condition will be addressed in CC#2
B12	All mechanical ventilation systems must be installed in accordance with Part F4.5 of the BCA and must comply with the AS 1668.2-2012 The use of ventilation and air-conditioning in buildings – Ventilation design for indoor air containment control and AS 3666.2:2011 Air-handling and water systems of buildings to ensure adequate levels of health and amenity to the occupants of the building and to ensure environment protection. Details must be submitted for the approval of the Certifying Authority prior to the commencement of above ground works.	Pre construction	NT		The stage of works that are currently being planned is the substructures and covered under CC#1. This condition will be addressed in CC#2
B13	The installation, operation and maintenance of warm water systems and water cooling systems (as defined under the Public Health Act 2010) must comply with the Public Health Act 2010, Public Health Regulation 2012 and Parts 1 and 2 (or Part 3 if a Performance-based water cooling system) of AS/NZS 3666.2:2011 Air handling and water systems of buildings — Microbial control — Operation and maintenance and the NSW Health Code of Practice for the Control of Legionnaires' Disease.	Pre construction	NT		The stage of works that are currently being planned is the substructure and covered under CC#1. This condition will be addressed in CC#2



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
B14	The building plans and specifications must demonstrate, for the approval of the Certifying Authority, that an appropriate area will be provided within the premises for the storage of garbage bins, recycling containers and all waste and recyclable material generated by the premises. Requirements of these storage areas must: a) ensure all internal walls of the storage area are rendered to a smooth surface, coved at the floor/wall intersection, graded and appropriately drained with a tap in close proximity to facilitate cleaning; b) include provision for the separation and storage, in appropriate categories, of material suitable for recycling; and c) include provision for separate storage and collection of organic/food waste.	Pre construction	NT		This condition relates to a design requirement during the operational phase. The stage of works that are currently being planned is the substructure and covered under CC#1. This condition will be addressed in CC#2.
B15	The fit out of the food premises shall be carried out in accordance with AS 4674 Design, construction and fit-out of food premises. Details of compliance with the relevant provisions of the food code shall be prepared by a suitably qualified person and submitted to the satisfaction of the Certifying Authority prior to the commencement of works, except site preparatory works.	Pre construction	NT		This condition relates to a design requirement during the operational phase. The stage of works that are currently being planned is the substructure and covered under CC#1. This condition will be addressed in CC#2.
B16	Final design plans of the stormwater drainage systems, prepared by a qualified practicing professional and in accordance with the requirements of Council, must be submitted to the Certifying Authority prior to the commencement of any works. The hydrology and hydraulic calculations must be based on models described in the current edition of Australian Rainfall and Runoff.	Pre construction	С		Civil and Hydraulic plans have been prepared by Northrop Rev 2 dated 30/5/18.
B17	Kerb and gutter, stormwater drainage, full road width pavement including traffic facilities (vehicle crossings, if applicable) and paved footpaths must be constructed along the area where road works are to be undertaken. In relation to public roads or classified road (as defined under the Roads Act 1993), all roads and traffic facilities must be designed to meet the requirements of Council and RMS (if applicable) and obtain the necessary permits and approvals from the relevant road authority, prior to the commencement of road or pavement construction works.	Pre construction	NT		Civil and Hydraulic plans have been prepared by Northrop Rev 2 dated 30/5/18. These works have not yet commenced.
B18	a) Prior to the commencement of construction works, a Construction Environmental Management Plan (CEMP) must be submitted for the approval of the Certifying Authority. The CEMP must address, but not be limited to, the following matters where relevant:		С		i) hours of work are included in the NVMP Section 6.1 ii) 24 hr contacts are included in Section 1.2 of the CEMP



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	i) hours of work;				iii) traffic management included
	ii) 24 hour contact details of site manager;				on site establishment diagrams
	iii) traffic management, in consultation with Council;				iv) NVMP prepared by EMS (2018)
	iv) construction noise and vibration management, prepared by a suitable qualified person;				v) Dust management included in Appendix 1 of the CEMP
	v) management of dust and odour to protect the amenity of the neighbourhood;				vi) erosion and sediment control
	vi) erosion and sediment control;				included in Appendix 1 of the CEMP
	vii) stormwater control and discharge;				vii) stormwater control included in
	viii) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the Subject Site;				Appendix 1 of the CEMP viii) requirements for street
	ix) procedures for encountering groundwater during construction works;				sweepers and stabilised entry/exit
	x) external lighting in compliance with AS4282:1997 Control of the Obtrusive Effects of Outdoor Lighting;				points in Appendix 1 of the CEMP ix) there is a testing requirement
	xi) a protocol detailing appropriate procedures for identifying and dealing with unexpected finds of site contamination (including asbestos containing materials, Polycyclic aromatic hydrocarbons (PAHs), Total recoverable hydrocarbons (TRH)				in appendix 1 of the CEMP, could also include dewatering requirements in reference to this
	and lead-based paint);				x) included in the 3.14 of the CEMP
	xii) a protocol detailing appropriate procedures for identifying and dealing with unexpected finds of archaeological and Aboriginal heritage;				xi) Appendix 1 of the CEMP includes steps in the event of an
	xiii) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site; and				unexpected find xii) Appendix 7 of the CEMP is referenced as the unexpected
	xiv) waste storage, recycling and litter control;				finds protocol however it was not
	b) The CEMP must not include works that have not been explicitly approved in this development consent. In the event of any inconsistency between the consent and the CEMP, the consent must prevail; and				included in the CEMP, it is however included in the WHS management plan –(F050 WHSE Unexpected finds protocol).
	c) The Applicant must submit a copy of the CEMP to the Department and Council prior to commencement of work.				xiii) & xiv) A waste management plan has been prepared dealing with classification, storage and recycling
					c) The EMP was provided to DPE and CoS on the 1 June 2018



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
B19	The CEMP (as revised from time to time) must be implemented by the Applicant for the duration of the construction works.	ALL	Note		
					i) NVMP prepared by EMS
					li) Although the plan has been provided to council there was no evidence to show it had been prepared in consultation with council. The plan has been provided to council and to date no response has been received
	Prior to the commencement of works, a Construction Noise and Vibration Management Plan (CNVMP) must be submitted for the approval of the Certifying Authority. The CNVMP must address, but not be limited to, the following matters				iii) BMP included in 6.2 of NVMP, NVMP includes relevant consent conditions
	where relevant: i) be prepared by a suitably qualified expert;				iv) Section 6 of the NVMP includes mitigation measures
	ii) be prepared in consultation with Council and all noise sensitive receivers where noise levels exceed the construction noise management level, in accordance with EPA guidelines;				v) the NVMP has identified that the noise management level may be exceeded, strategies are
	iii) describe the measures that would be implemented to ensure:				included in table 4.3 and section 6
	i. best management practice is being employed;				to reduce this impact vi) The NVMP does not detail the
	ii. compliance with the relevant conditions of this consent;				consultation undertaken to
	iv) describe the proposed noise and vibration management measures in detail;				develop strategies in v) above.
	v) include strategies that have been developed to address impacts to noise sensitive receivers where noise levels exceed the construction noise management level, for managing high noise generating works;				This was raised in the previous audit and FDC have determined that they deem supplying the plan
	vi) describe the consultation undertaken to develop the strategies in v) above;				to council as satisfying the requirements of this condition
	vii) evaluates and reports on the effectiveness of the noise and vibration management measures; and				vii) the NVMP does not include a section that evaluates the
	viii) include a complaints management system that would be implemented for the duration of the construction works.				effectiveness of controls in the plan. Section 3.16 of the CEMP
B20	b) The Applicant must submit a copy of the CNVMP to the Department and Council prior to commencement of work.	Pre construction	NC raised in first audit		does include a process for auditing the sub plans.



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
					viii) Section 6.7 of the NVMP deals with complaints
					b) The University of Sydney provided a copy of the NVMP to DPE and CoS as evidenced by the email dated June 2018 from Stephanie Kerr, CIS Town Planner Campus Infrastructure & services the University of Sydney.
	The CNVMP (as revised from time to time) must be implemented by the Applicant				
B21	for the duration of the construction works.	ALL	Note		
					a) A waste management plan has been prepared Waste management Plan REV A
	a) Prior to the commencement of works, a Construction Waste Management Plan				i) recycling of demolition wastes would be undertaken off site
	(CWMP) must be submitted for the approval of the Certifying Authority. The CWMP must address, but not be limited to, the following matters where relevant:				ii) the removal of hazardous waste is not specifically covered in the
	i) recycling of demolition materials including concrete; and				WMP, however this requirement is included in the CEMP Appendix
	ii) removal of hazardous materials and disposal at an approved waste disposal facility in accordance with the requirements of the relevant legislation, codes, standards and guidelines, prior to the commencement of any building works.				1 b) details regarding legislative
	b) Details demonstrating compliance with the relevant legislative requirements, associated with the removal of hazardous waste, particularly the method of containment and control of emission of fibres to the air, are to be submitted for the approval of the Certifying Authority prior to the removal of any hazardous				compliance for the removal of hazardous waste is not specifically dealt with in the WMP, however is included in the CEMP
	materials;				c) FD has provided the CTMP to
	c) The Applicant must notify the RMS Traffic Management Centre of the truck route(s) to be followed by trucks transporting waste material from the Subject Site,				RMS for comment (email dated 5/6/2018). The CTMP includes haul routes
	prior to the commencement of the removal of any waste material from the Subject Site; and				d) The University of Sydney
	d) The Applicant must submit a copy of the plan to the Department and to the Council prior to the commencement of work.				provided a copy of the WMP to DPE and CoS as evidenced by the
B22	ossile. p. o. de dominencement of Horni	Pre construction	С		email dated June 2018 from Stephanie Kerr, CIS Town Planner



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
					Campus Infrastructure & services the University of Sydney.
B23	The CWMP (as revised from time to time) must be implemented by the Applicant for the duration of the construction works.	ALL	note		
	Prior to the commencement of construction works, a Construction Traffic and Pedestrian Management Plan (CTPMP) must be prepared by a suitably qualified expert in consultation with Council, RMS and TfNSW (Sydney Coordination Office), and submitted for the approval of the Certifying Authority. The CTPMP must address, but not be limited to, the following matters where relevant:				
	i) location of proposed work zones;				
	ii) haulage routes;				
	iii) construction vehicle access arrangements;				
	iv) construction hours;				
	v) construction program;				
	vi) predicted construction traffic volumes and vehicle movements, types and routes including any known road closures and consideration of alternate routes;				
	vii) details of construction vehicle movements including parking, dedicated vehicle turning areas and ingress and egress points;				
	viii) loading and unloading;				
	ix) details of management measures to minimise traffic impacts, including temporary road works and/or implementation of traffic control measures;				
	x) pedestrian and traffic management methods;				
	xi) any potential impacts to general traffic, cyclists, pedestrians and bus services within the vicinity of the site from construction vehicles during the works;				
	xii) consideration of the cumulative construction traffic impacts of surrounding projects under construction, including those within the University of Sydney precinct.				
	Existing CTPMPs for developments within or around the Subject Site should be referenced in the CTPMP to ensure that the coordination of work activities are managed to minimise impacts on the surrounding road network; and				A CTMP has been prepared and addresses all the requirements of this condition. CTMP Rev 2.
B24	xiii) should impacts be identified, the duration of the impacts and measures proposed to mitigate any associated general traffic, public transport, pedestrian and cyclist impacts.	Pre construction	С		Email evidence was provided showing he plan had been provided to RMS and COS



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	b) The Applicant must submit a copy of the CTPMP to the Secretary and City of Sydney				
	Council, prior to the commencement of works.				
B25	The CTPMP (as revised from time to time) must be implemented by the Applicant for the duration of the construction works.	ALL	Note		
B26	Prior to the commencement of construction works, or as otherwise agreed by the Secretary, the following must be made available for community enquiries and complaints for the duration of construction: a) a toll-free 24 hour telephone number(s) on which complaints and enquiries about the carrying out of any works may be registered; b) a postal address to which written complaints and enquires may be sent; and c) an email address to which electronic complaints and enquiries may be transmitted.	ALL	С	FDC update the CSMP to include the contact details as required by this condition	It was noted at the site inspection that signage on the hoarding included all requirements of this condition. A communication and stakeholder management plan has been prepared however it does not include details of • 24 hr toll free number • Postal address for complaints • Email address for complaints It is also noted that 24 hr contacts are included in Section 1.2 of the CEMP
	A Complaints Management System must be prepared prior to the commencement of any construction works and be implemented and maintained for the duration of these works.				
	The Complaints Management System must include a Complaints Register to be maintained recording information on all complaints received about the development during the carrying out of any works associated with the development. The Complaints Register must record the:				A communication and stakeholder management plan has been prepared and a community
	a) number of complaints received;				relations register has been set up detailing these requirements. It is
	b) number of people affected in relation to a complaint; and				not yet populated as works had
B27	c) nature of the complaint and means by which the complaint was addressed and whether resolution was reached, with or without mediation.	ALL	С		not substantially commenced at the time of the audit.



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	The Complaints Register must be provided to the Secretary upon request, within the timeframe stated in the request.				
B28	Prior to the commencement of construction work the Applicant is to negotiate (where necessary) with the utility authorities (e.g. Ausgrid and telecommunication carriers) in connection with the relocation and/or adjustment of the services affected by the construction of the building structure.	Pre construction	С		Email to Paul Schenko (of Group DLA – the certifier) was provided showing that no telecommunications services would be impacted as a result of the works – email dated 6/6/18.
B29	Prior to the commencement of above ground works written advice must be obtained from the electricity supply authority, an approved telecommunications carrier and an approved gas carrier (where relevant) stating that satisfactory arrangements have been made to ensure provisions of adequate services.	Pre construction	NT		This stage of works is for substructure works.
	The external walls of all buildings, including additions to existing buildings, must comply with the relevant requirements of the NCC. Prior to commencement of works, the Applicant must provide the Certifying Authority with documented evidence that the products and systems proposed for use external walls, including finishes and claddings such as synthetic or aluminium composite panels, comply with the requirements of the NCC.				
B30	The Applicant must provide a copy of the documentation given to the Certifying Authority to the Secretary within seven days after the Certifying Authority accepts it.	Pre construction	NT		This will be provided for crown certificate 2– Superstructure and Façade
	A Pre-Construction Compliance Report must be prepared for the development, and				A letter to Group DLA – the independent certifiers has been sent from FDC, stating that they are compliant with all pre construction conditions.
B31	submitted to the Certifying Authority for approval before the commencement of construction works. A copy of the endorsed compliance report must be provided to the Department at compliance@planning.nsw.gov.au before the commencement of construction works.	Pre construction	С		Email dated 8/6/18 showed that the pre-construction compliance report had been sent to compliance@planning.nsw.gov.au



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
B32	The Pre-Construction Compliance Report must include: a) details of how the terms of this consent that must be addressed before the commencement of construction have been complied with; and b) the expected commencement date for construction.	Pre construction	С		Email dated 8/6/18 showed that the pre-construction compliance report had been sent to compliance@planning.nsw.gov.au
B33	Prior to tree removal, tree hollows are to be checked by a qualified ecologist or wildlife carer for the presence of bats. Any bats found are to be relocated, unless in torpor, in which case relocation and tree removal is to be delayed until the end of the torpor period.	Pre construction	С		AMBS undertook a survey to check hollows and for the presence of bats and provided a report dated the 6 April 2018. 17 trees were inspected, and no hollows or evidence of bats were found.
	No later than one month before the commencement of construction works or within another timeframe agreed with the Secretary, a program of independent environmental audits must be prepared for the development in accordance with the latest version of AS/NZS ISO 19011-2014: Guidelines for Auditing Management Systems (Standards Australia, 2014) and submitted to the Secretary for information.				
	B35. The scope of each audit must be defined in the program. The program must ensure that environmental performance of the development in relation to each compliance requirement that forms the audit scope is assessed at least once in each audit cycle.				
	B36. The environmental audit program prepared and submitted to the Secretary in accordance with conditions B35 and B36 above must be implemented and complied with for the duration of the development.				
	B37. All independent environmental audits of the development must be conducted by a suitably qualified, experienced and independent team of experts and be documented in an audit report which:				
	a) assesses the environmental performance of the development, and its effects on				
	the surrounding environment including the community;				This has been sout to the County
	b) assesses whether the development is complying with the terms of this consent;				This has been sent to the Secretary and this audit is the second audit
B34 – B38	c) reviews the adequacy of any document required under this consent; and	ALL	С		within the submitted audit plan.



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	d) recommends measures or actions to improve the environmental performance of the development, and improvements to any document required under this consent.				
	B38. Within three months of commencing an Independent Environmental Audit, or within another timeframe agreed by the Secretary, a copy of the audit report must be submitted to the Secretary, and any other NSW agency that requests it, together with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The recommendations must be implemented to the satisfaction of the Secretary.				
SSD 7984 consen	requirements PART C During Construction				
C1	A copy of the approved and certified plans, specifications and documents incorporating conditions of approval and certification must be kept on the Subject Site at all times and must be readily available for perusal by any officer of the Department, Council or the Certifying Authority.		С		Relevant documentation is available at the site office
	a) Construction, including the delivery of materials to and from the site, may only be carried out between the following hours:				
	i) between 7 am and 6 pm, Mondays to Fridays inclusive; and				
	ii) between 7.30 am and 3.30 pm, Saturdays.				
	b) No work may be carried out on Sundays or public holidays.				
	c) Activities may be undertaken outside of these hours:				
	i) if required by the Police or a public authority for the delivery of vehicles, plant or materials; or				
	ii) if required in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or				
	iii) works are inaudible at the nearest sensitive receivers; or				Construction hours are clearly
	iv) if a variation is approved in advance in writing by the Secretary or her nominee.				stated on the site entrances and in
	d) Notification of such activities must be given to affected residents before undertaking				the induction material. Out of hours works are not
C2	the activities or as soon as is practical afterwards.		С		occurring.
	Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours:				Rock braking was scheduled to commence the week of the 10
C3	a) 9 am to 12 pm, Monday to Friday;		NT		Sept following the site audit.



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	b) 2 pm to 5 pm Monday to Friday; and				
	c) 9 am to 12 pm, Saturday.				
C4	The development must be constructed with the aim of achieving the construction noise management levels detailed in the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the CNVMP required under condition B21.		NT		Monitoring is commencing on the 10 th of Sept to coincide with noisy works. (rock breaking activities)
C5	If the noise from a construction activity is substantially tonal or impulsive in nature (as described in Chapter 4 of the Noise Policy for Industry, 5 dB(A) must be added to the measured construction noise level when comparing the measured noise with the construction noise management levels.		NT		Monitoring is commencing on the 10 th of Sept to coincide with noisy works. (rock breaking activities) Monitoring will confirm 9or otherwise) compliance with noise targets and results will be audited at audit 3.
C6	The Applicant must ensure construction vehicles do not arrive at the Subject Site or surrounding residential precincts outside of the construction hours of work outlined under condition C2.		С		Out of hours works are not occurring
C7	The use of impact piling is not permitted.		note		
C8	The Applicant must schedule intra-day 'respite periods' for construction activities identified in the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009) as being particularly annoying or intrusive to noise sensitive receivers, including surrounding residents and nearby hospital buildings. These activities are to be carried out after 8 am only and over continuous periods no exceeding three hours (with at least a one hour respite every three hours).		NT		Rock breaking had not commenced at the time of the site audit. Respite is incorporated in the noise management plan for the site.
C9	Wherever practical, and where sensitive receivers may be affected, piling activities are completed using bored piles. If driven piles are required they must only be installed where outlined in a CNVMP required under condition B21.		NT		Piling has not commenced
C10	The Applicant must implement, where practicable and without compromising the safety of construction staff or members of the public, the use of audible movement alarms of a type that would minimise noise impacts on surrounding noise sensitive receivers.		С		A range of movement alarms are implemented onsite. No complaints relating to noise have been received



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
					No complaints relating to noise have been received.
C11	Any noise generated during construction of the development must not be offensive noise within the meaning of the Protection of the Environment Operations Act 1997 or exceed approved noise limits for the Subject Site.		С		Monitoring planned for 10 Sept 2018 will confirm 9or otherwise) compliance with noise targets and results will be audited at audit 3.
	Vibration caused by the construction works at any residence or structure outside the Subject Site must be limited to:				
	a) for structural damage vibration, German Standard DIN 4150 Part 3 Structural Vibration in Buildings. Effects on Structures;				
	b) for human exposure to vibration, the evaluation criteria presented in British Standard BS 6472 – Guide to Evaluate Human Exposure to Vibration in Buildings (1 Hz to 80 Hz) for low probability of adverse comment;				
	c) vibratory compactors must not be used closer than 30 metres from residential buildings unless vibration monitoring confirms compliance with the vibration criteria specified above; and				The NVMP prepared for the
C12	d) these limits apply unless otherwise outlined in the CNVMP required under Condition B21 and submitted for the approval of the Certifying Authority.		NT		project indicates that vibratory impacts are unlikely.
C13	All waste generated during construction must be assessed, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014).		С		Only VENM is currently leaving the site and this is managed by the sub-contractor Chalouhi. Waste information is recorded in the truck run sheet and provided by Chalouhi
C14	The body of any vehicle or trailer used to transport waste or excavation spoil must be covered before leaving the premises to prevent any spillage or escape of any dust, waste of spoil. Mud, splatter, dust and other material likely to fall from or be cast off the wheels, underside or body of any vehicle, trailer or motorised plant leaving the site must be removed before leaving the premises.		С		Mentioned in the induction material and noted on site.
C15	The Applicant must ensure that concrete waste and rinse water are not disposed of on the Subject Site and are prevented from entering any natural of artificial watercourse.		С		Hoppers of concrete trucks are washed out in a bin.



			Compliance		
Reference	The Applicant is to consult with SafeWork NSW concerning the handling of any asbestos waste that may be encountered during construction. The requirements of the Protection of the Environment Operations (Waste) Regulation 2014 with particular reference to Part 7 – 'Transportation and management of asbestos	Stage/timing	Status	Action Required	Comments
C16	waste' must also be complied with. If any unexpected archaeological deposits/relics are discovered during construction, then all works must cease immediately in that area and the OEH Heritage Division contacted in writing. Depending on the possible significance of the discovery, an archaeological assessment and management strategy may be required before further works can continue in that area. Works may only recommence with the written approval of the OEH Heritage Division.		NT NT		No asbestos encountered
C18	In the event that surface disturbance identified an Aboriginal object, all works must halt in the immediate area to prevent any further impacts to the object(s). A suitably qualified archaeologist and the registered Aboriginal representatives must be contacted to determine the significance of the objects. The site is to be registered in the Aboriginal Heritage Information System (AHIMS) which is managed by OEH and the management outcome for the site included in the information provided to AHIMS. The Applicant must consult with the Aboriginal community representatives, the archaeologists and OEH, to development and implement management strategies for all projects/site.		NT		
C19	Prior to commencement and for the duration of works, the tree protection measures outlined in the Arboricultural Impact Assessment, prepared by ArborSafe, dated 12 May 2017, are to be implemented and maintained.		С		Tree protection measures in Aborsafe report prepared (2017) were implemented at the time of the audit, including fencing to avoid impacts to the TPZ.
C20	All erosion and sediment control measures, are to be effectively implemented and maintained at or above design capacity for the duration of the construction works and until such time as all ground disturbed by the works have been stabilised and rehabilitated so that it no longer acts as a source of sediment.		С		Not audited as construction had The site visit confirmed that adequate controls are in place
C21	Any seepage or rainwater collected on-site during construction or groundwater must not be pumped to the street stormwater system unless separate prior approval is given in writing by the relevant approval authority where necessary.		С		Dewatering has not occurred to date. The report prepared by Coffey (2018) indicates that groundwater is not contaminated and can be discharged to stormwater following testing and



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
					correction (if required) of pH. A subcontractor has been engaged to manage groundwater flocculation, part of the flocculation process will involve regular testing of PH prior to any discharge. These records will be audited at Audit 3.
C22	A Road Occupancy Licence must be obtained from the Transport Management Centre (RMS) for any works that impact on traffic flows on public roads or classified roads (as those terms are defined under the Roads Act 1993), during construction activities.		NT		
C23	The loading and unloading of construction materials must not be carried out on Parramatta Road in order to ensure the continued and unimpeded operation of existing public transport services.		С		All loading occurs in accordance with the traffic management plan for the site.
	a) A site notice(s) must be prominently displayed at the boundaries of the Subject Site for the purposes of informing the public of project details including, but not limited to the details of the Builder, Certifying Authority and Structural Engineer.				
	b) The site notice(s) is to satisfy all but not be limited to, the following requirements:				
	i) minimum dimensions of the notice are to measure 841 mm x 594 mm (A1) with any text on the notice to be a minimum of 30 point type size;				
	ii) the notice is to be durable and weatherproof and is to be displayed throughout the works period;				
	iii) the approved hours of work, the name of the site/ project manager, the responsible managing company (if any), its address and 24 hour contact phone number for any inquiries, including construction/ noise complaint are to be displayed on the site notice; and				
C24	iv) the notice(s) is to be mounted at eye level on the perimeter hoardings/fencing and is to state that unauthorised entry to the Subject Site is not permitted.		С		This sign was erected at the time of the site inspection
C25	To protect the safety of work personnel and the public, the Subject Site must be adequately secured to prevent access by unauthorised personnel, and work must be conducted at all times in accordance with relevant Work Cover requirements.		С		Hoarding surrounds the site and the construction site was fenced at the time of the site inspection



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	The following hoarding requirements must be complied with:				
	a) no third party advertising is permitted to be displayed on the subject hoarding/ fencing;				
	b) the construction site manager must be responsible for the removal of all graffiti from any construction hoardings or the like within the construction area within 48 hours of its application; and				Hoarding surrounds the site and
C26	c) the applicant must submit a hoarding application to Council for the installation of any hoardings over Council footways or road reserve.		С		the construction site was fenced at the time of the site inspection
C27	The public way, being land owned by Council or a Government agency (outside of any construction works zone), must not be obstructed by any materials, vehicles, refuse, skips or the like, under any circumstances. Non-compliance with this requirement will result in the issue of a notice by the relevant Authority to stop all works on site.		С		The public pathway was not obstructed on the date of the site inspection
	At least 48 hours before the commencement of construction until the completion of all works under this consent, or such other time as agreed by the Secretary, the Applicant must:				
	a) make the following information and documents (as they are prepared, obtained or approved) publicly available on its website:				
	i) the documents referred to in condition A2 of this consent;				
	ii) all current statutory approvals for the development;				
	iii) all approved strategies, plans and programs required under the conditions of this consent;				
	iv) regular reporting on the environmental performance of the development in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent;			Ensure Sydney Uni	
	v) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;			regularly updates the website with current	Information is available on the university website. It was noted that the one complaint received
	vi) a summary of the current stage and progress of the development;			information 9eg complaints, noise	had not been updated on the website, however the period for
	vii) contact details to enquire about the development or to make a complaint;			monitoring results	update was still within the one
C28	viii) a complaints register, updated monthly;		С	etc)	month period.



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	ix) audit reports prepared as part of any independent environmental audit of the development and the Applicant's response to the recommendations in any audit report;				
	x) any other matter required by the Secretary; and				
	b) keep such information up to date, to the satisfaction of the Secretary.				
	Note: This condition does not require any confidential information to be made available to the public.				
C29	Within 24 hours of the occurrence of an incident that causes (or may cause) significant harm to the environment, the Applicant must notify the Secretary and any other relevant agencies of the incident in accordance with condition no. A15		NT		
C30	Within seven days of the detection of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested in accordance with condition no. A16.		NT		
C31	The Applicant must provide regular (six monthly) reporting on any environmental performance required by the development consent for the development on its project website, in accordance with the reporting arrangements in any plans or other documents approved under the conditions of this consent.		NT		This will be checked at audit three once the project has been running for six months
C32	The Applicant must ensure that all of 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.		С		Relevant information is included in the site induction.
C33	Construction Compliance Reports must be submitted to the Department at compliance@planning.nsw.gov.au for information every six months from the date of the commencement of construction, for the duration of construction. The Construction Compliance Reports must provide details on the compliance performance of the development for the preceding six months and must be submitted within one month following the end of each six month period for the duration of the construction of the development, or such other timeframe as required by the Secretary.		NT		The first construction compliance report was not due at the time of the audit
	The Construction Compliance Reports must include:				
	a) a results summary and analysis of environmental monitoring;				
	b) the number of any complaints received, including a summary of main areas of complaint, action taken, response given and proposed strategies for reducing the				
C34	recurrence of such complaints;		NT		



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	c) details of any review of the CEMP and associated sub-plans as a result of construction carried out during the reporting period;				
	d) a register of any modifications undertaken and their status;				
	e) results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit;				
	f) a summary of all incidents notified in accordance with this consent; and				
	g) any other matter relating to compliance with the terms of this consent or as requested by the Secretary.				
	Unless the Applicant and the applicable authority agree otherwise, the Applicant must:				
	a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by carrying out the development; and				
C35	b) relocate, or pay the full costs associated with relocating, any infrastructure that needs to be relocated as a result of the development.		NT		

CEMP Obligations	CEMP Obligations								
Environmental Object	tives and Targets								
CEMP 1.5 Environmental Action	Aspect Waste Sediment & Erosion Control Water Quality Noise & Vibration Dust as and monitoring table	Objective To minimise waste going to landfill To prevent sediment from entering waterways or stormwater To prevent contamination of water ways To minimise noise and vibration To limit dust	Construction	С					
Dust generation(General)	vehicle access onsite. • Limit vehicle speed onsit	ne clearly identified and restricted to control ee to 10km/hr	Daily/Weekly	С	4A class hoarding around perimeter Daily pre starts occur by subcontractor, Chalouhi and then update the staging plan Weekly toolbox talks are undertaken by FDC Monday				



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	 Reduce work activities /stop work during moderate to high wind velocity periods. Maintain equipment. Smokey plant to be stopped until repair works completed. • Turn off vehicle engines whilst not in use (no long periods of idling) 			morning run through points of discussion — a review of the toolbox for the 3.9.18 showed controls for traffic and dust as well as staying clear of the TPZ
Dust Generation (demolition)	 Breakers and crushing equipment to be fitted with dust filtration equipment or water sprays to control dust emissions. 	Daily/Weekly	С	
Dust Generation (Construction)	 Minimise areas of site disturbed and stage works where possible. Dust suppression strategies to be used, i.e. water sprays, soil binders, hydromulching, controlled speed onsite, roadbase + shaker grids. Stockpiled topsoils and rubble will be restricted to 4m high. Stabilise if insitu for >4-6months. On site drilling or coring operations will be undertaken by equipment fitted with air filtration equipment. 	Daily/Weekly	С	Site has not been wind affected dur to hoarding and below ground works
Odour	 If odorous materials uncovered, recover immediately. Seek advice from consultant regarding soil /materials management. 	Daily	NT	
Emissions to Air	• Ensure machinery is maintained correctly	Daily	С	Machinery pre start and machinery and maintenance log books are also regularly checked by FDC
Stormwater (Discharge from sedimentation basins, flooding)	 Water quality to meet ANZECC Water Quality Guidelines. PH 6.5- 8.5, Turbidity <50NTU, No visible oil & grease Obtain advice for use of flocculants to settle sediment from water. Sedimentation pond to be maintained at low levels to ensure capacity during rainfall event. DO NOT DISCHARGE IF CONTAMINANTS SUSPECTED. Obtain advice. 	Daily/Weekly	С	Dewatering has not occurred to date. The report prepared by Coffey (2018) indicates that groundwater is not contaminated and can be discharged to stormwater following testing and correction (if required) of pH. A subcontractor has been engaged to manage groundwater flocculation, part of the flocculation process will involve regular testing of PH prior to any discharge. These



				records will be audited at Audit 3.
	Temporary drainage systems will be established to divert clean			
	waters around the land development areas as appropriate.			
	Erect silt fences, bunds and construct swale drains.			
	Inspect at least weekly & after rainfall			
	Maintain and/or replace as required.			
	Street sweepers will be employed on regular basis			
	 Install erosion and sediment controls before work starts. 			
	Leave as much vegetation as possible.			
	 Install temporary fences to define 'no go' areas in those areas that 			
	are not to be disturbed. Include the area under the canopy of trees			
	so that tree roots will not be damaged by soil compaction.			
	Divert run-off from upslope away from the site, but ensure that you			
	do not flood your neighbours. For example, dig drainage channels			
	(catch drains sized to accommodate the upslope catchment).			
	 Install sediment controls downslope of the site to catch sediment. 			
	Check the erosion and sediment controls every day and keep them			
	in good condition.			
	 Leave or lay a kerbside turf strip (for example, the nature strip) to 			
	slow the speed of water flows and to trap sediment.			
	 Limit vehicle entry and exit to one point, and lay geotextile and blue 			
	metal to stabilise it for all-weather access.			
	Clearly mark the access point and give an access map to all			
	suppliers.			
	Protect all drains with a gravel sausage made from geotextile filled			
	with blue metal.			
	Save the topsoil and stockpile it for use later in revegetation. Never			
	place it around trees as this will kill them.			Concrete washout is in bin
	Store all stockpiles and building materials behind sediment fences.			Chute /hopper is washed out
	Cover them with plastic to prevent erosion by wind.			in a bin
Adiainina	Get council approval before placing stockpiles or other materials on			Weekly checks are occurring
Adjoining waterways	the nature strip or footpath.			Street sweepers were evident
(dewatering, soil	Connect downpipes from the guttering to the stormwater drain as			No go areas are defined
erosion & runoff)	soon as the roof goes on.	Daily/Weekly	С	Sediment controls are in place



	 Build a dam below the area used for cutting tiles, concrete and bricks. Surround the wash-out area with a sediment fence that slows down 			
	the water flow. Site this area upslope of another sediment control.			
	 Fill in all trenches immediately after services have been laid. Spread the topsoil back when the work is finished and revegetate the site as soon as possible to control erosion. Remove the sediment and erosion controls only after this is done. Sweep the road and footpath every day. Washing down is unacceptable. Never place any materials in the gutter or on the road. You will be fined for this. 			
	Filter or settle-out all water pumped off the site. The water must be clear before it enters the stormwater system or creeks. Gypsum can be applied to muddy (turbid) water to help clay particles settle			
Sewer (Trade Waste)	 Comply with the conditions of the trade waste consent or permit, or the local council approval, including acceptance standards No paints or other chemical to be poured down drains. If required, obtain trade waste licence for discharge or local council approval 	Daily/Weekly	NT	
	 Stop work if unexpected potentially contaminated soils are encountered. Obtain waste classification from consultant in accordance with OEH\EPACW\EPA guidelines Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes (June 2004) www.environment.nsw.gov.au/waste/envguidIns/index.htm. Where required a Remediation Action Plan will be developed and implemented. Sign off by Site Auditor may be required to validate cleanup. 			
Land	 Any groundwater or ponded rainwater will be tested and classified by consultants prior to disposal. 			
(Acid sulphate soils, contaminated soils,	Check geotech requirements. Ensure soil classification suitable for			
imported fill)	land use ie. Schools, residential, commercial etc.	As required	NT	



Resources – water, materials, energy	 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. 	Daily/Weekly	NT	Works mainly involve excavation to date.
Noise	 Refer to DA for noise restrictions and working hours. Use hoarding or acoustic mats as required. Situate generators and plant away from sensitive receivers. Turn off machinery. Maintain equipment and stop noisy plant until repaired. Hours No early deliveries. 	Daily/Weekly	С	Working hours are restricted to normal hours as per the DA Hoarding has been erected Machinery pre starts are occurring
Vibration	 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 	Daily/Weekly	С	Dilapidation reports were completed in May 2018 prior to the previous audit
Community Concerns	 Provide information (e.g. Signage, letterbox drops) to community on programmed works Provide contact name for inquires. Advice locals of "noisy" work. 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. 	Daily/Weekly	C	No complaints around noise — only complaint to date has been in relation to traffic management. The complaint was around having to wait every day at stop go sign at entrance to university. Complainant was responded to on the next working day (Complaint was made on a Friday and responded to on Monday).
Flora	 Review planning documentation to determine the presence of any protected, threatened or significant flora. Obtain approvals as required. Engage arborist to develop tree management plan or refer DA and arborist reports. Education and training at site toolbox meetings and induction. Report all sightings to the site manager. 	Daily/Weekly	С	Arborist report was completed prior to construction. Fencing is maintained to protect trees Protection of vegetation is included in the induction.



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	 Fence or barricade protected flora at the drip zone. Erect Keep Out signage. Do not stack materials under/against trees. The potential for reuse of vegetative wastes by mulching, chipping or on-site placement of trunks or limbs shall be reviewed for each project. 			
Fauna	 All native animals protected. Review planning documentation to determine the presence of any protected, threatened or significant fauna. Obtain approvals as required. Site rules/induction to include information regarding of the For injured animals, to relocate call WIRES 	Daily/Weekly	С	Induction includes details on accidental harm.
Waste Litter	 Hazardous materials surveys to be completed. Materials to be removed prior to demolition Registers and waste disposal requirements as per WorkCover and OEH\EPACW\EPA requirements for removal, storage, transport and disposal. General site wastes –use one bin system and sort in contractor's yard to produce quantities of material for recycling, reuse, disposal etc. Empty drums are to be taken off-site for disposal. Empty drums shall be crushed prior to recycling/disposal. Do not overfill skip bins. Provide plenty for use. Cover where potential for windblown litter. 	Daily/Weekly	С	Chain of custody is on Chalouhi civil sub-contractors. At the moment this is recorded in the truck run sheet and provided by Chalouhi
Landfilling	 Reduce, reuse and then dispose Dispose of hard construction wastes for recycled gravels and sands Do not send soil to landfill until alternatives for beneficial reuse have been explored as per consultant's advice. Consideration should be given to chipping of the vegetation and reuse Reuse packaging to protect works 	As required	С	Waste register is being maintained. At present it is only excavated material that is being removed form site. This is removed as it is excavated
Chemicals	Chemicals to be stored in bunded areas (impervious + 110% of largest container) away from stormwater drains & pits.	Daily/Weekly	С	Very little chemical material stored on site.



		T	T	T	T
	Refer SafeWork NSW Code of Practice for Storage & Handling of				Bunded areas provided for
	Dangerous Goods, OEH\EPACW\EPA Guidelines for Bunding & Spill				fuels and chemicals.
	Management. Appropriate chemicals storage is in conformance				Spill kits noted on site
	with:				Concrete washout of the
	 AS 1940 The Storage and Handling of Flammable and 				hopper is to a bin.
	Combustible Liquids				
	Storage and Handling of Dangerous Goods WorkCover Code of Practice 2005– refer p. 86				
	OEH\EPA requirements				
	http://www.environment.nsw.gov.au/water/bundingspill.htm				
	 Ponded water within bunds will not be discharged to stormwater. 				
	 Fuel and hydraulic leaks to be cleaned up immediately. 				
	 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 pit for washout, away from 				
	stormwater drains. Send back to batch plant where possible.				
	 Concrete cuttings to be contained and wetvac to prevent runoff into 				
	stormwater drains.				
	 Storage of bulk fuels (>200L) on site is prohibited. All refuelling shall 				
	be undertaken by a mobile facility with appropriate spill control and				
	containment control equipment.				
	Develop and implement traffic management plans. Submit to local council as required.				
	Signage and notices regarding disruptions.				
	Use crushed concrete, mulches etc along site access roads.				Traffic management plan implemented
	• Install shakers and wheel wash as required.				Tarped trucks were noted at
	Organise regular street sweeping.				site visit
	Haulage routes and rules will be provided to subcontractors prior to commencing				Regular street sweeping of
	on site.				University Avenue was
Traffic	All loads of soil, demolition wastes, general wastes etc are to be tarped	Daily/Weekly	С		evident.



	• 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.			
Hazardous Materials (Lead paint)	• 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	NT		
Hazardous Materials (Asbestos)	 A licence subcontractor must be used to demolish, remove, repair or disturb asbestos. A WorkCover asbestos licence is required to remove 10 square metres or more of bonded asbestos A SafeWork licence is required to remove, repair or disturb friable asbestos 	NT		
	 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 Office of Environment and Heritage. Work in the subject area to cease until specialist advice is obtained. The area will be fenced and signs erected to restrict access. Heritage consultants may be required to provide advice on 			Information included in induction No unexpected finds have
Aboriginal heritage	demolition/construction processes and finishes.	С		occurred.



European heritage	 Education and training at site toolbox meetings and induction. It is illegal to destroy heritage items. Check the OEH\EPACW\EPA Aboriginal Heritage Information Management System (AHIMS). Also check the register of the National Estate. Obtain approval from NPWS (Section 90 consent). Any evidence of Aboriginal relics discovered during construction shall be reported to the National Parks and Wildlife Service. Local Land Council representatives may be required to monitor stripping/excavation. Work in the subject area to cease until specialist advice is obtained. The area will be fenced and signs erected to restrict access 	С	Information included in induction No unexpected finds have occurred.
Emergency Preparedness	 Spill kit onsite. Refer to the MSDS for advice and procedures. All spills must be reported to the Site Manager & cleaned up. Complete FDC Accident /Incident report. Sediment pond pumped out regularly to maintain capacity in case of emergency Ensure you know where stormwater drains are and have materials to block them in case of a fire 	С	Spill kits noted on site No sediment ponds are on site

SUBPLANS

Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments		
Waste Managem	Waste Management plan						
2.1	The on-site separation of scrap metals such as aluminium, copper pipe and wire, lead and steel is viable. Bins will be identified clearly on sites to aid in the separation of materials. FDC will work together to reduce waste coming to site.		С		Waste is separated		



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
2.1	Site conditions permitting separate on-site bins for cardboard and paper are also possible and FDC have committed to provide a paper bin for use on site for this purpose.		С		Waste is separated
Noise and Vibrati	on Management plan				
5.2 Nose impact predictions	The noise management level is 65dBA LAeq(15min) for residential and education receivers and 70dBA LAeq(15min) for commercial receivers.				Monitoring is commencing on the 10 th of Sept to coincide with noisy works. (rock breaking activities)
	a) Construction, including the delivery of materials to and from the site, may only be carried out between the following hours:				
	i) between 7 am and 6 pm, Mondays to Fridays inclusive; and				
	ii) between 7.30 am and 3.30 pm, Saturdays.				
	b) No work may be carried out on Sundays or public holidays.				
	c) Activities may be undertaken outside of these hours:				
	i) if required by the Police or a public authority for the delivery of vehicles, plant or materials; or				
	ii) if required in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or				
	iii) works are inaudible at the nearest sensitive receivers; or				
	iv) if a variation is approved in advance in writing by the Secretary or her nominee.				Construction hours are clearly stated on the site entrances and in
6.1	d) Notification of such activities must be given to affected residents before				the induction material.
Construction hours	undertaking		С		Out of hours works are not occurring.
	Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours:				
	a) 9 am to 12 pm, Monday to Friday;				
6.1 rock	b) 2 pm to 5 pm Monday to Friday; and		NT		Rock breaking had not commenced at the time of the audit
breaking	c) 9 am to 12 pm, Saturday.		NT		at the time of the audit



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
6.2 Best management Practise	 Implementing quiet work practices – Using equipment in ways to minimise noise, this includes reducing throttle setting and turning off equipment when not being used, i.e. trucks and saws. Distance – Provide as much distance from the noise source to the receivers as possible. Stationary machinery, especially, should be located at the south-eastern border of the site. Maintain equipment – Regularly inspect and maintain equipment to ensure it is in good working order. Also check the conditions of mufflers and keep the cutting saw sharp. Scheduling – Sensitive residential and educational receivers surround the site, therefore further time restrictions for intense work such as the rock breaking, drop sawing and hammer drilling works etc. could be utilised. See Section 6.1 for the scheduling given by City of Sydney for noisy activities. Limiting – Reduce the amount of machines or tools operating simultaneously near the receivers' location. 		С		Noise management measures are being implemented. No noise related complaints have occurred.
6.3 Best Available Technology Economically Achievable (BATEA) Noise Control	 Substituting quieter equipment – examining different types of machinery that perform the same function and compare the noise level data to select the least noisy machine, examination includes tyre noise, exhaust and compressor/fan noise. For example, rubber wheeled tractors can be less noisy than steel tracked tractors. Adjusting reversing alarms on heavy equipment to make them 'smarter' by limiting the acoustic range to the immediate danger area or a broadband style alarm sometimes referred to as a 'quacker' alarm (See C10. from the Development Consent (Application No. SSD 7894)). High Performance Exhaust Mufflers could be fitted to the 30 and 50-tonne excavators working within the site. Silencers/mufflers are likely to reduce noise emission from 5 to 15dB. 		С		Not required due to expected compliance with noise targets and no noise complaints Noise testing is due to commence on the 10 September and will be reviewed in the December 2018 audit.



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
	Pneumatic equipment is traditionally a problem – select silenced damped bits where possible.	8-7,		1	
6.4 acoustic screens	 The barrier should have the following properties: Material having at least 10 kg/m2 surface density. There should be no gaps or openings at joints in the barrier material. 		NT		Hoarding has been erected but acoustic barriers have not been required. This will be reviewed following noise monitoring in September. Barriers are unlikely to be required due to noisy background environment (Parramatta Road) and absence of noise complaints.
6.5 Vibration Mitigation Control	 Place as much distance as possible between the excavation work and the surrounding pedestrians/properties. Distance is one of the most effective mitigation measures against vibration. Organise high impacting operations so as not to occur in the same time period. Conduct lower impact methods wherever possible, including the following: Orientation of the rock hammer away from property boundaries and into open excavation; and Operate excavator hammering in short bursts only, to reduce amplification of vibrations and the rise of noise. 		NT		
6.6 Noise and Vibration Monitoring	 Unattended noise monitoring be undertaken at a nearby residential receiver either continuously throughout the project or during the first week of the excavation, substructure and structure stages to ensure noise levels are not excessive. Attended short term noise measurements may also be taken during the various stages, to ensure noise levels are complying with the noise criterion. Noise monitoring during high construction activities and/or after a complaint should be undertaken to monitor the noise impact at the affected receiver. 		С		The frequency of noise monitoring is not stated in the COA or the sub plan, therefore FDC complies with this condition. Monitoring is scheduled for 10 September 2018.



			Compliance		
Reference	Requirement	Stage/timing	Status	Action Required	Comments
	 Vibration monitoring is not required at the University of Sydney buildings surrounding the site nor the residential buildings across Parramatta Road due to the distance between site and the aforementioned buildings. Vibration monitoring should be undertaken adjacent to the pedestrian walkways surrounding the site should complaints arise. 				
	 Provide, reasonably ahead of time, information such as total building time, what works are expected to be noisy, their duration, what is being done to minimise noise and when respite periods will occur. For works outside standard hours, inform affected residents and other sensitive land use occupants between five and 14 days before commencement. Provide information to neighbours before and during construction through media such as letterbox drops, meetings or individual contact. In some areas, the proponent will need to provide notification in languages other than English. A website could also be established for the project to provide information. Use 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 shall be clearly visible from the outside and include afterhours emergency contact details. Maintain good communication between the community and project staff. Appoint a community liaison officer where required. For larger projects consider a regular newsletter with site news, significant project events and timing of different activities. Provide a toll free contact phone number for enquiries during the works. Facilitate contact with people to ensure that everyone can see that the Site Manager understands potential issues, that a planned approach is in place and that there is an 				No night works has occurred Information regarding the project is available on the university website
Consultation	ongoing commitment to minimise noise.		С		for the project.



Reference	Requirement	Stage/timing	Compliance Status	Action Required	Comments
Complaint management	 Provide a readily accessible contact point, for example through 24 hour toll free information and complaint's line. Give complaints a fair hearing. Have a documented complaints process, including an escalation procedure so that if a complainant is not satisfied there is a clear path to follow. Call back as soon as possible to keep people informed of action to be taken to address noise problems. Call back at night time only if requested by the complainant to avoid further disturbance. Provide a quick response to complaints, with complaints handling staff having both a good knowledge of the project and ready access to information. Keep a register of any complaints, including details such as date, time, person receiving complaint, complainant's phone number, person referred to, description of the complaint, work area (for larger projects), time of verbal response and timeframe for written response where appropriate 				





10 Appendix 5: Corrective Action Plan for IEA #2

Project: 250048 Chau Chak Wing Museum Revised 19/09/18



Independent Environmental Audit #2 Corrective Action Plan

Project Details				
Project Name:	Chau Chak Wing Mu	seum		
Project Number:	250048	250048		
Project Location:	F21 Chau Chak Wing Camperdown Campu		ney University, Univer	sity Avenue,
Client:	The University of Syd	dney		
Project Manager:				
Senior Project Manager:	Branko Mihaljevic			
Date work is to commence (approx.)	15/04/2018			
Estimated duration of work	23 Months			
Name of principal contractor:	FDC Construction (NSW) Pty Ltd		
Company address:	22 - 24 Junction Street Forest Lodge NSW 2037			
ABN:	72608609427			
Approvals				
Project Manager:		Signature:		Date:
Senior Project Manager:	Branko Mihaljevic	Signature:	dio aque	Date: 26/09/18
Project Director		Signature:		Date:
General Manager:		Signature:		Date:
Divisional IMS Manager:		Signature:		Date:
Distribution:	Client, Principal, Sup	erintendent, De	partment of Planning	& Environment
Management Plan Revision:				



Rev Date	REVISION DESCRIPTION	PM's INITIALS (acceptance of changes)
26/09/18	A – For Approval	die opus

All changes to Corrective Action Plan are to be reviewed and approved by the Project Manager.



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Project: 250048 Chau Chak Wing Museum Revised 19/09/18



Introduction: 1

The purpose of this corrective action plan is to identify, respond and address the non-conformances and recommendations outlined in the 2nd independent environmental audit undertaken by NGH Environmental for the Chau Chak Wing Museum Project (SSD 7894).

Audit findings and Recommendations

The table below summarises the recommendations made as a result of this audit.

Recommendation #	Recommendation
Sept 2018/01	Sydney university to update website to include current complaints register (version on website is currently blank)
Sept 2018/02	Update EMP appendix list to include Appendix 7.

FDC Construction's (NSW) corrective action: 3

Sept 2018/01 – FDC will request that the updated complaints register is uploaded to the Universities website, in addition to this we will request that the corrective action plan for audit 1 is also uploaded to satisfy SSD conditions.

Sept 2018/02 – The project environmental management plan has been updated to include appendix 7 which is the F050 unexpected finds protocol. Please refer to updated document contained in email correspondence alongside this corrective action plan.

Project Innovation:

The CCWM project is dedicated to innovation through the implementation of effective sustainability targets not only during construction, but through smart decision making in the design phase to reduce the impact the building will have on the environment during its life cycle.

This is evident through the projects aim of achieving a "gold star" rating on the Universities sustainability framework.

Examples of innovation and sustainable practices include the projects aim of recycling at least 85% of building and demolition materials by weight and improving building energy performance by 20%.

Update as at 19/09/18 (IEA #2):

Further to the above mentioned "gold star" rating on the Universities sustainability framework, FDC's sustainability consultant Steensen Varming have compiled and submitted the "gateway 3 submission" on the 18/09/2018 which we are targeting to satisfy all requirements to achieve the gold rating. There are still 3 credits which FDC are continuing to work on with the subcontractor team being life cycle costing analysis for the mechanical systems, loose furnishing and fittings and joinery. The FDC/ESD team are confident at this point in time we will satisfy the requirements of the sustainability framework and achieve the gold start rating for the project.

Further updates on the progression of the sustainability framework will be provided with each corrective action plan moving forward.

Project: 250048 Chau Chak Wing Museum Project Revision Date: 19/09/18 Revised 19/09/18 Page 4 of 4



11 Appendix 6: FDC Complaints Register & Complaint #1

Project: 250048 Chau Chak Wing Museum Revised 19/09/18





Chau Chak Wing Museum - Complaints and Enquires Register

Item No #	Date	Description	# People Affected	Nature of Complaint	Resolution	Open / Closed	Comments
1	10/08/2018	Complaint surrounding traffic management		control. Issue surrounding stop/go batton always	on stop due to site constraints and in line with	Closed	
							+
							+
							+

From: <u>Harry Moate</u>
To: <u>Harry Moate</u>

Subject: FW: Contact Us Form: Enquiry

Date: Wednesday, 26 September 2018 3:57:27 PM

Attachments: <u>image001.png</u>

image002.png image003.png image005.png image006.png

From: Branko Mihaljevic

Sent: Monday, 13 August 2018 12:27 PM

To: hannahcrook91@gmail.com; Joe Abraham <joea@fdcbuilding.com.au>

Cc: Kate Bimson < kate.bimson@sydney.edu.au>; Christopher Burns

<<u>christopher.burns@sydney.edu.au</u>>; <u>complaints@fdcbuilding.com.au</u>; Garrett Cassettari <<u>garrettc@fdcbuilding.com.au</u>>; Charles Karam <<u>charlesk@fdcbuilding.com.au</u>>; Matt Hawkins

<matth@fdcbuilding.com.au>

Subject: RE: Contact Us Form: Enquiry

Hannah

Firstly, thanks for contacting FDC about your concerns

As for the issues surrounding the traffic controller we address them as follows:

- 1. It is acknowledged that the traffic controller is standing on a blind corner. Unfortunately due to the site constraints, there was no other location for the site gates to be positioned, particularly due to the trees lining the boundary of the site. They are instructed to stand in the median strip, away from the traffic lane, or up on the kerb next to the entry booth. We will keep an eye on ensuring this continues to occur.
- 2. As for the traffic paddle being on permanent 'STOP', the reason for this is once again, the nature of the site constraints. The pedestrian gate is immediately adjacent the traffic gate that you see monitored. With over 30 workers on site (rising to over 100 in the next few months) coming and going at any time and the removal of the footpath along that side, there is nowhere for the pedestrian to go, other than immediately on the road. For that reason, we have no choice but to err on the side of caution and stop all vehicles leaving the University until there is a 'check' done to see if a pedestrian has leapt out onto the road. That quick check should result in the immediate release of the vehicle, assuming no pedestrians are leaving the site. The traffic controller is briefed on the reasons for this, but we do apologize for it not being relayed to you.

We are continually trying to improve the site and how it is managed and will strive to look at alternatives as and when they present themselves.

Additionally, we assure you of our utmost cooperation in trying to resolve your concerns ASAP and please feel free to contact me should you wish to discuss the matter further Thanks

Branko Mihaljevic | Senior Project Manager | FDC Construction (NSW) Pty Ltd 22 - 24 Junction Street Forest Lodge NSW 2037

Sydney | Canberra | Melbourne | Adelaide | Brisbane | Perth
T 61 2 8117 5178 | M 0408 486 970 | F 61 2 9566 2911 | www.fdcbuilding.com.au
Accreditations: QA | WHS | EMS | FSC | NSW Government





PROUD TO BE A MAJOR PARTNER OF GIANTS NETBALL SUPER NETBALL #HereComeTheGIANTS

Please consider the environment before printing this email

From: Joe Abraham

Sent: Monday, 13 August 2018 11:15 AM

To: Branko Mihaljevic < <u>brankom@fdcbuilding.com.au</u>>

Subject: Fwd: Contact Us Form: Enquiry

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: ENQ < enq@fdcbuilding.com.au > Date: 13/8/18 10:30 am (GMT+10:00)

To: Joe Abraham < joea@fdcbuilding.com.au > Subject: FW: Contact Us Form: Enquiry

Hey Joe

Are you able to address the below?

Kimberley Mackey | Reception | FDC Construction & Fitout Pty Ltd 22 - 24 Junction Street Forest Lodge NSW 2037

Sydney | Canberra | Melbourne | Adelaide | Brisbane | Perth T 61 2 8117 5000 | M | F 61 2 9566 2922 | www.fdcbuilding.com.au Accreditations: QA | WHS | EMS | FSC | NSW Government

Download vCard





PROUD TO BE A MAJOR PARTNER OF GIANTS NETBALL, SUPER NETBALL #HereComeTheGIANTS

Please consider the environment before printing this email

From: FDC Construction [mailto:noreply@fdcbuilding.com.au]

Sent: Friday, 10 August 2018 6:22 AM

To: ENQ < enq@fdcbuilding.com.au > **Subject:** Contact Us Form: Enquiry

From: Hannah crook

Email: hannahcrook91@gmail.com

Subject: Web Enquiry

Message Body:

Hi,

I'm wanting to express my concerns about the traffic control at the university of Sydney museum building site.

I work at the University and every single time I approach the work site around a blind corner I find a traffic control girl with a stop sign in her hand and no traffic or truck movement at the site. The reason I find this frustrating is that I have asked the girl why she constantly stops traffic and she has explained that it is a requirement that they be on stop at all times and that even she wasn't sure why they are required to stop traffic when there is nothing coming in or out of the site at the time.

I'm frustrated because it is causing unnecessary congestion and I'm also concerned at the fact that she is standing on the road around a blind corner. It is unsafe for both the staff controlling traffic and motorists.

Please review your work plans to a more safe and appropriate situation for all.

Kind regards, Hannah

--

This e-mail was sent from the Contact Us form on the FDC Website (http://fdcbuilding.com.au/contact-us/)

This email has been scanned by the Symantec Email Security.cloud service. For more information please visit http://www.symanteccloud.com



12 Appendix 7: FDC Environmental Management Plan Rev E

Project: 250048 Chau Chak Wing Museum Revised 19/09/18



ENVIRONMENTAL MANAGEMENT PLAN

Project Details			
Project Name:	Chau Chak Wing Mu	seum	
Project Number:			
Project Location:	F21 Chau Chak Wing Camperdown Campu	g Museum, Sydney University, Univer us	sity Avenue,
Client:	University of Sydney		
Senior Project Manager:	Branko Mihaljevic		
Date work is to commence (approx.):	15/04/2018		
Estimated duration of work:	23 Months		
Name of principal contractor:	FDC Construction		
Company address:	22-24 Junction Street Forest Lodge		
ABN:	72608609427		
Approvals			
Senior Project Manager:	Branko Mihaljevic	Signature:	Date:
General Manager:	Sean Gibbeson	Signature:	Date:
Divisional IMS Manager:	Joe Abraham	Signature:	Date:
Distribution:	Client, Project Manaç	ger, Site Manager, Subcontractors	
Management Plan Revision:	Revision A – Project start up		



Rev Date	REVISION DESCRIPTION	PM's INITIALS (acceptance of changes)
9/04/18	Revision A – Project start up	ВМ
06/06/18	Revision B – CC Amendments	ВМ
29/06/18	Revision C – Updated as per IEA#1	ВМ
27/07/18	Revision D – Updated as per Sustainability Comments	ВМ
19/09/18	Revision E – Updated as per IEA#2	BM



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1 Overview

1.1 Project Scope

Construction of a Museum at the University of Sydney. The building is a 6 level building with 7,740 sqm of gross floor area comprising of gallery space, education areas, research areas, collection storage space, workshop areas, offices study rooms, a 130 seat auditorium, café, museum shop, terrace areas, loading dock and plant rooms.

There will bulk excavation and civil works including piling and removal of 18 trees.

1.2 Project Details

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

- Between 7 am and 6 pm, Mondays to Fridays inclusive and between 7.30 am and 3.30 pm, Saturdays.
- No work may be carried out on Sundays or public holidays.

Activities may be undertaken outside of these hours:

- if required by the Police or a public authority for the delivery of vehicles, plant or materials; or
- if required in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or
- works are inaudible at the nearest sensitive receivers; or
- if a variation is approved in advance in writing by the Secretary or her nominee.

Notification of such activities must be given to affected residents before undertaking the activities or as soon as is practical afterwards."

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

- 9 am to 12 pm, Monday to Friday;
- 2 pm to 5 pm Monday to Friday; and
- 9 am to 12 pm, Saturday."

In accordance with condition C9 of development consent SSD7081 rock breaking, rock hammering or sheet piling & driven piling will occur during the following hours;

- Monday to Friday 9am to 12pm
- Monday to Friday 2pm to 5pm
- Saturday 9am to 12pm

24 Hour contacts

- Project Manager Branko Mihaljevic 0408 486 970 brankom@fdcbuilding.com.au
- Site Manager Garrett Cassettari 0400 477 419 garrettc@fdcbuilding.com.au

1.3 Environmental Management Plan

This Environmental Management Plan describes the environmental strategy, methods, controls, and requirements for the execution of the project. It stands alone as the master document for site environmental activities, and refers to company procedures.

The Environmental Management Plan defines how the environmental aspects of the project will be run. It complements the Management System and in some cases may override it.

This Environmental Management Plan should be read in conjunction with the Project Management Plan and the Site Safety Plan.

1.4 Purpose of the Environmental Management Plan

The purpose of this Environmental Management Plan is to:

- Identify the environmental issues (aspects and impacts) for this project;
- Establish, communicate and implement environmental operational controls to reduce any adverse impacts on the environment from the company's activities, products and services;
- Ensure compliance by FDC and its suppliers and subcontractors with all relevant environmental legislation, any applicable licence, approval and permit, regulatory requirements and this EMP;

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- Ensure that works are managed to reduce adverse impacts on the environment;
- Action any outcomes from incidents or accidents, project audits or other identified nonconformances and to continually improve the Environmental Management System.

1.5 Environmental Objectives

The objectives for the project are:

Aspect	Objective
Waste	To minimise waste going to landfill
Sediment & Erosion Control	To prevent sediment from entering waterways or
	stormwater
Water Quality	To prevent contamination of water ways
Noise & Vibration	To minimise noise and vibration
Dust	To limit dust

1.6 Key Environmental Issues

The key environmental issues on the project are:

- Noise and vibration
- Water management
- Stormwater
- Erosion and sediment control
- Air quality
- Asbestos
- Waste
- CIS Sustainability Bronze Rating

1.7 Environmental Rating Tools

1.7.1 CIS Sustainability Standard

1.7.1.1 *Overview*

The CCMW Project is targeting a Gold rating in the CIS Sustainability

Framework tool. The CIS Sustainability Standard sets out the minimum requirements for achieving sustainable design of major building projects at the University of Sydney.

The requirements of this Standard are met by completing the University's Sustainability

Framework which is a dynamic Microsoft Excel based tool used by project teams to benchmark sustainability performance for a particular project.

Within the Sustainability Framework individual measures define the specific design and infrastructure requirements to enhance sustainability of the project. Measures are grouped into the following categories within the framework:

- Place making and Landscape
- Leadership, Communication and Community Benefit
- Healthy Environment
- Resource Efficiency
- Materials
- Climate change and Infrastructure

Each sustainability measure is awarded a number of points, proportional to the sustainability benefit delivered by it.

The Sustainability Framework benchmarks sustainability across different building types by using common sustainability ambition levels. There are four ambition levels available:

- Bronze corresponds to 65-69% of the total points available
- Silver corresponds to 70-74% of the total points available
- Gold corresponds to 75-79% of the total points available
- Platinum corresponds to >80% of the total points available

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The Sustainability Framework includes a number of mandatory measures and discretionary measures. The total points needed to meet the project sustainability ambition level are achieved by implementing mandatory measures plus additional discretionary measures.

The target for the CCMW project is to achieve a Gold rating and a number of initiatives are proposed by the design team to meet this target which is defined with respective consultant specifications.

2 Internal and External Communication

2.1 Project Organisational Chart

The Project Organisational Chart (F102) is included in the Appendices of the Project Management Plan

2.2 Responsibilities & Authorities

Position descriptions and skills register of each member of the project team are included in the Appendices of the Project Management Plan.

2.3 Contact Details

Contact details of Key Personnel, Stakeholders and Environmental Agencies are included in the Appendices of the Project Management Plan.

3 Environmental Actions

3.1 Environmental Risks / Environmental Aspects

Potential environmental obligations and risks associated with the project shall be identified prior to the start of the project by the Project Manager on the FDC Site Risk Assessment.

The Environmental Risk Assessment will be provided to subcontractors and suppliers as part of the subcontract and supply contracts.

Where risks are identified as medium to high in the matrix, the impacts associated with FDC's activities, products and services will be deemed as "significant" and require operational controls that shall be described on the Environmental Actions & Monitoring Table (F070). Refer to Appendix 3.

Significant aspects may impact on the environment positively (e.g. recycling) or negatively (e.g. pollution).

3.2 Environmental Impacts and Controls

3.2.1 Project Environmental Management Plans

The Environmental Actions & Monitoring Table (F070) describes operational controls used to manage environmental issues. Refer to Appendix 3.

The Foreman will ensure that environmental controls are inspected in accordance with these plans. Information of hazardous materials, including each material's potential impact on the environment and measures to be taken in the event of accidental release will be managed via the Hazardous Substances Register.

3.2.2 Supplementary Environmental Plans

Supplementary Plans required by the contract, Development Application or as deemed necessary by the Project Manager will be attached to this plan.

Supplementary Plans required are:

- Noise Management Plan
- Traffic Management Plan
- Waste Management Plan (including a waste management register)

Supplementary plans are to be submitted individually as required by the PPR



3.2.3 Subcontractors and Suppliers

Subcontractors, and suppliers shall meet the environmental management requirements specified in the EMP.

Subcontractors shall be made aware of their responsibilities under the terms of the applicable environmental legislation, by being provided a copy of this Environmental Management Plans and by participating in site induction.

Subcontractors will be requested to submit Safe Work Method Statements (SWMS), ITPs or environmental procedures with details of how they manage any environmental aspects and impacts associated with their activities.

Consideration of **normal** and **abnormal** operations, along with **emergency** scenarios will be included in ITPs as required.

Subcontractor performance will be monitored to ensure that contracts are being fulfilled and appropriate environmental management practices are being followed.

Subcontractors must adhere to ISO14001

3.3 Legal & Other Requirements

3.3.1 Legislative Compliance

Legislative requirements that apply to the project are detailed in Appendix 5.

Where Development Consents permits or approvals relate specifically to the project, these issues will also be deemed as "significant" and will be included in the project environmental risk assessment, Environmental Actions & Monitoring Table & environmental procedures.

3.3.2 Licenses & Approvals

Licences and approvals required for the project are listed below:

Licence / Approval	Number
OEH	
Sydney Water	
RTA	
Energy Australia	

3.4 Contaminated Site Procedure

Projects undertaken on contaminated sites will undergo a Contaminated Site Assessment (CSA). CSA reports shall be provided as part of planning approvals process of a proposed development. The CSA and associated approvals shall be reviewed by the Project Manager.

All relevant CSA reports, documents and relevant approvals will be obtained and reviewed prior to site activities commencing. Operational controls will include any specific procedures described in the report or approvals.

Where required, ITPs and/or SWMS will be developed to address requirements of CSAs and to ensure verification of the works being completed as described.

The Site Manager will also ensure that the site workforce are made aware of potential contamination issues associated with the contaminated site development. Advice shall be provided should problems be identified.

The Site Manager will maintain spoil disposal records.

3.5 Monitoring

The Environmental Management Plan shall be monitored following implementation to ensure that:

- Environmental operational controls are being effectively applied.
- Project specific environmental monitoring targets specified in the Development Consent or other planning permits for air, water and noise are 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 Environmental Actions & Monitoring Table.

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



3.6 Communication and Consultation

3.6.1 Training

Prior to the commencement of project activities, all site personnel (including sub-contractors) will attend site induction.

Site Induction shall include an outline of the requirements of this EMP and the responsibilities and accountabilities of all site personnel.

The project environmental site rules will be included in the induction session.

Training records will be kept to verify who has attended the training.

3.6.2 Community Consultation

The Foreman shall conduct and encourage employees and subcontractors to conduct tool box meetings to address safety and environmental hazards in and around the site, safe work practices, coordination and responsibilities.

The Project Manager will advise relevant residents of the nature and scope of works.

3.6.3 Community Complaints

- Community complaint shall be recorded on an Incident/Community Report.
- Remedial action must be taken as soon as practical. Any action taken shall be recorded on the form

3.7 Emergency Planning & Response

Refer to the Critical Incident & Emergency Response Plan.

3.8 Incident Investigation & Reporting

3.8.1 Internal Requirements

The Foreman shall ensure that all incidents occurring in or around the site, involving company personnel, subcontractors, visitors or passers-by, are investigated and reported regardless of how minor they appear at the time of the occurrence.

A Non-Conformance Report shall be completed for each incident that cannot be immediately rectified and has no ongoing environmental impact.

3.8.2 University requirements

- The Department 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.
- A written incident notification must also be emailed to the Department 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 forms the view that an incident has not occurred

Written notification of an incident must:

- i. identify the development and application number;
- ii. provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);
- iii. identify how the incident was detected;
- iv. identify when the Applicant became aware of the incident;
- v. identify any actual or potential non-compliance with conditions of consent;
- vi. describe what immediate steps were taken in relation to the incident;
- vii. identify further action(s) that will be taken in relation to the incident; and
- viii. identify a project contact for further communication regarding the incident.

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 Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Secretary, the Applicant must provide the Secretary and any relevant public authorities (as determined by the Secretary) with a detailed report on the incident addressing all requirements for such reporting set out in A15(b), and such further reports as may be requested.

The Incident Report must include:

- i) a summary of the incident;
- ii) outcomes of an incident investigation, including identification of the cause/s of the incident:
- iii) details of the corrective and preventative actions that have been, or will be,
- implemented to address the incident and prevent recurrence; and
- iv) details of any communication with other stakeholders regarding the incident.

3.8.3 Duty to Notify Office of Environment and Heritage (OEH) of Pollution Incident

FDC shall notify the OEH Pollution Line, 131 555, regarding pollution incidents that have occurred in the course of its activities, if the following apply:

- The actual or potential harm to the health or safety of human beings or ecosystems is not trivial.
- The actual or potential loss or property damage (including clean-up costs) associated with a pollution incident may exceed \$10,000.

3.9 Non Conformance

In the event of breach in the requirements of the EMP, a Non Conformance Report will be completed and issued to the offending party.

Non Conformances will be registered in the Non Conformance Report Register.

A copy of the Non Conformance Notice will be forwarded to the Project Manager and the subcontractor, who will implement appropriate corrective action.

3.10 Aboriginal artefact discovery protocol

Aboriginal objects are physical evidence of the use of an area by Aboriginal people. They can also be referred to as 'Aboriginal sites', 'relics' or 'cultural material'.

Aboriginal objects include:

- a) physical objects, such as stone tools, Aboriginal-built fences and stockyards, scarred trees and the remains of fringe camps
- b) material deposited on the land, such as middens
- c) the ancestral remains of Aboriginal people.

If you find an Aboriginal artefact on site, you must:

- Cease work immediately and barricade of the area.
- Notify the Project Manager who will notify a representative from the University.
- Report the artefact and its location to the Office of Environment & Heritage. Even if you believe the artefact is in danger of being damaged the best thing to do leave it alone and report it immediately.

3.11 Tree Protection

Trees outlined for retention and protection within the arborist report are to be identified on procession of the site. Adequate measures to be taken to protect the trees specifically outline within the report.

Method of protection will be done in consultation with The University of Sydney

Refer to Arboriculture impact assessment

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3.12 Traffic

The traffic management will be carried out in accordance with the Traffic Management Plan in consultation with council.

3.13 Dust Management

The management of dust on site will be in accordance with the monitoring table provided in Appendix 3

The main methods to reduce risk will be as follows:

- Install misting system to permitter fencing to provide dust suppression. Operation of misting will be at the direction of the Project manager or site manager
- Shade cloth on site gates.
- Vehicle corridors will be clearly identified and restricted to control vehicle access onsite.
- Limit vehicle speed onsite to 10km/hr
- Fixed and mobile (water tanker) water sprays
- Reduce work activities /stop work during moderate to high wind velocity periods.
- Maintain equipment. Smokey plant to be stopped until repair works completed.
- Turn off vehicle engines whilst not in use (no long periods of idling).

FDC will carry out regular inspections of adjoining buildings to monitor and ensure if/when dust is being generated that the above measure are being implemented or are being effective. Where the above methods are not being effective in duct control then FDC will further consult the stakeholders and subcontractors to develop other methods.

3.14 External Lighting

All external lighting will be in accordance with AS 4282:1997 and will not be intrusive to neighbouring properties. FDC will carry out works with the all neighbouring properties in mind and where possible will carry out visual test from select vantages in the neighbourhood where possible intrusions could occur. Generally speaking the use of external flood lights will be limited in use and where required for safe work will be carried out in a sensitive fashion.

The external lighting will continue to be monitored throughout the project to ensure compliance is being maintained.

3.15 Unexpected Finds Protocol

Refer to appendix 7 for unexpected finds protocol

3.16 Audits

Projects audits shall be scheduled by the National EHS Systems Manager and form part of the company's audit schedule. Refer Audit procedure Cor-8.2-001.

Audits shall address the requirements of ISO9001, ISO4801, ISO 14001FDC's Management System and the various Management Plans.

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Project Revision Date: xx/xx/xx

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4 Appendices

1	Environmental Policy	
2	Drawing	
3	Environmental Actions & Monitoring Table (F070)	
4	Additional Management Plans	
5	Legal & Other Requirements (F055)	
6	Environmental Performance Rating Systems (F091)	
7	Unexpected Finds Protocol	



ENVIRONMENTAL POLICY

The Environmental Management System covers the provision of project and/or construction management for residential, industrial and commercial building, including ground up construction refurbishment or additions and interior fitout to existing builders.

It is FDC's policy to:

- "Reduce, re-use and recycle" wherever possible, be it on site or within the office environment;
- Promote environmentally friendly solutions;
- Ensure that environmental considerations form part of our business planning and decision-making processes:
- Promote a culture of responsible environmental management;
- Protect the natural environment and social surroundings, preserve biodiversity, prevent pollution and minimize waste;
- Comply with applicable environmental laws;
- Continually improve our environmental performance;
- Communicate with stakeholders on environmental matters.

FDC encourage, on a personal and corporate basis, sound environmental considerations for protection of our natural resources.

We discourage any practice or product selection that is knowingly detrimental to environmental protection. FDC Management and staff are committed to the implementation and maintenance of an environmental management system based on ISO14001.

Bentley Cottle Managing Director

-Cartan

30/06/2017



Date:	
Project:	
Address	
Address:	
Prepared by:	

Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP
Dust Generation Particulate Emissions (General)	NSW - POEO Act (Sections 124- 126)	 Install shade cloth on perimeter fencing Vehicle corridors will be clearly identified and restricted to control vehicle access onsite. Limit vehicle speed onsite to 10km/hr Fixed and mobile (water tanker) water sprays Reduce work activities /stop work during moderate to high wind velocity periods. Maintain equipment. Smokey plant to be stopped until repair works completed. Turn off vehicle engines whilst not in use (no long periods of idling) 	Y	Y	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Dust Generation (Demolition)	NSW - POEO Act (Sections 124- 126)	Breakers and crushing equipment to be fitted with dust filtration equipment or water sprays to control dust emissions.	Y	Plant/ Machinery Register	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Dust Generation (Construction)	NSW - POEO Act 1997 (s 124-126)	 Minimise areas of site disturbed and stage works where possible. Dust suppression strategies to be used, i.e. water sprays, soil binders, hydromulching, controlled speed onsite, roadbase + shaker grids. Stockpiled topsoils and rubble will be restricted to 4m high. Stabilise if insitu for >4-6months. 	Y	Y	N	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required

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			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP
		On site drilling or coring operations will be undertaken by equipment fitted with air filtration equipment.							
Odour	NSW - (POEO Act 1997 s 142	If odorous materials uncovered, recover immediately. Seek advice from consultant regarding soil /materials management.	N	Y	N	Visual	Daily	Diary	As required
Emissions to Air	NSW (<i>POEO Act</i> 1997, s 124-125	Ensure machinery is maintained correctly	Y	Y	Y	Visual	Daily	Diary	As required
Stormwater (Discharge from sedimentation basins, flooding)	NSW - POEO Act (Section 120) ANZECC Water Quality Guidelines NSW Department of Housing's Managing Urban Stormwater (2004)	 Water quality to meet ANZECC Water Quality Guidelines. PH 6.5- 8.5, Turbidity <50NTU, No visible oil & grease Obtain advice for use of flocculants to settle sediment from water. Sedimentation pond to be maintained at low levels to ensure capacity during rainfall event. DO NOT DISCHARGE IF CONTAMINANTS SUSPECTED. Obtain advice. 	Y	Stormwater & Sediment Control Plan	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Adjoining waterways (dewatering, soil erosion & runoff)	NSW - POEO Act 1997(s 120, 122) NSW - PEO (General) Regulation 1998,cl 55; NSW - Local Government Act 1993, s 638] NSW Department of Housing's Managing Urban	 Temporary drainage systems will be established to divert clean waters around the land development areas as appropriate. Erect silt fences, bunds and construct swale drains. Inspect at least weekly & after rainfall Maintain and/or replace as required. Street sweepers will be employed on regular basis Install erosion and sediment controls before work starts. Leave as much vegetation as possible. Install temporary fences to define 'no go' areas in those areas that are not to be disturbed. Include the area under the canopy of trees so that tree roots will not be damaged by soil 	Y	Stormwater & Sediment Control Plan	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required

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Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Op	erational Cont	rols			Checking, Corrective & Preventative Action	
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP
	Stormwater (2004) ANZECC Water Quality Guidelines	 Divert run-off from upslope away from the site, but ensure that you do not flood your neighbours. For example, dig drainage channels (catch drains sized to accommodate the upslope catchment). Install sediment controls downslope of the site to catch sediment. Check the erosion and sediment controls every day and keep them in good condition. Leave or lay a kerbside turf strip (for example, the nature strip) to slow the speed of water flows and to trap sediment. Limit vehicle entry and exit to one point, and lay geotextile and blue metal to stabilise it for all-weather access. Clearly mark the access point and give an access map to all suppliers. Protect all drains with a gravel sausage made from geotextile filled with blue metal. Save the topsoil and stockpile it for use later in revegetation. Never place it around trees as this will kill them. Store all stockpiles and building materials behind sediment fences. Cover them with plastic to prevent erosion by wind. Get council approval before placing stockpiles or other materials on the nature strip or footpath. Connect downpipes from the guttering to the stormwater drain as soon as the roof goes on. Build a dam below the area used for cutting tiles, concrete and bricks. Surround the wash-out area with a sediment fence that slows down the water flow. Site this area upslope of another sediment control. Fill in all trenches immediately after services have been laid. Spread the topsoil back when the work is finished and 							
		Spread the topsoil back when the work is finished and revegetate the site as soon as possible to control erosion.							

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Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls				Checking, Corrective & Preventative Action		
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP
Sewer	Comply with the conditions of the	Remove the sediment and erosion controls only after this is done. Sweep the road and footpath every day. Washing down is unacceptable. Never place any materials in the gutter or on the road. You will be fined for this. Filter or settle-out all water pumped off the site. The water must be clear before it enters the stormwater system or creeks. Gypsum can be applied to muddy (turbid) water to help clay particles settle No paints or other chemical to be poured down drains.	Y	Stormwater &	Y	Visual	Daily	Diary	As required
(Trade waste)	trade waste consent or permit, or the local council approval, including acceptance standards	If required, obtain trade waste licence for discharge or local council approval	·	Sediment Control Plan		Inspection	Weekly	Site Inspection Checklist	
Land (Acid sulphate soils, contaminated soils, imported fill)	NSW - Contaminated Land Management Act 1997, s 60; NSW - Contaminated Land Management Regulation 1998, cl 3 Acid Sulfate Soils Management Advisory	Stop work if unexpected potentially contaminated soils are encountered. Obtain waste classification from consultant in accordance with OEH\EPACW\EPA guidelines Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes (June 2004) www.environment.nsw.gov.au/waste/envguidlns/index.htm. Where required a Remediation Action Plan will be developed and implemented. Sign off by Site Auditor may be required to validate cleanup. 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 ie. Schools, residential, commercial etc.	Y	Acid Sulphate Soils Management Plan	Y				As required

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Environmental Aspect/Impact	Legal Requirements	ments Environmental Actions, Controls and Citiena	Ор	erational Contr	rols		Checking, Corrective & Preventative Action		
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP
	Committee								
Land	NSW - Contaminated Land Management Act 1997, s 60 NSW - Contaminated Land Management Regulation 1998, cl 3	 Potential for acid sulphate soils will be assessed based on the sites 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. 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. The requirements to import fill will be minimised by utilising on site cut material wherever possible. All analysis certificates shall be handed over as part of the completion documents to the client. Record all imported fill on Form F042 – Imported Fill Register. Mark up locations where fill compacted in site plan. Survey if required 		Y	Y				As required
Resources – water, materials, energy		 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. 		Y					As required
Noise	NSW - POEO Act (Sections 139, 140)	 Refer to DA for noise restrictions and working hours. Use hoarding 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. 	Y	Noise Management Plan	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Vibration		Conduct dilapidation report prior to work starting. Limit the use of vibratory rollers, rock breakers, impact piling	Y		Y				As required

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Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls			Monitoring			Checking, Corrective & Preventative Action
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP
		 etc. adjacent to buildings (>7m). Regenerated noise may also transfer through bedrock and building structures. Obtain advice if required 							
Community Concerns		 Provide information (e.g. Signage, letterbox drops) to community on programmed works Provide contact name for inquires. Advice locals of "noisy" work. 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. 	Y	Y					As required
Flora	NSW - State Environmental Planning Policy No 14 - Coastal Wetlands, s 7(1, 5), 7A; NSW - Native Vegetation Act 2003, s 12; Forestry Act 1916, s27(1); NSW - National Parks and Wildlife Act 1974, s 117(1), 118(1)] Environment Protection and Biodiversity	 Review planning documentation to determine the presence of any protected, threatened or significant flora. Obtain approvals as required. Engage aborist to develop tree management plan or refer DA and aborist reports. Education and training at site toolbox meetings and induction. Report all sightings to the site manager. Fence or barricade protected flora at the drip zone. Erect Keep Out signage. Do not stack materials under/against trees. The potential for reuse of vegetative wastes by mulching, chipping or on-site placement of trunks or limbs shall be reviewed for each project. 	Y	Y Consultant Report		Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required

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Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Op	perational Contr	rols		Checking, Corrective & Preventative Action		
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP
	Conservation Act 1999 (Commonwealth), s 12, 15B, 16, 18, 20, 21, 23								
Fauna	NSW Environmental Planning and Assessment Act 1979, s 5A, 78A(8))(b), 79B, 111 & 112-112E	 All native animals protected. Review planning documentation to determine the presence of any protected, threatened or significant fauna. Obtain approvals as required. Site rules/induction to include information regarding of the For injured animals, to relocate call WIRES 	Y	Y Consultant Report		Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
	NSW - Threatened Species Conservation Act								
	NSW - 1995; National Parks and Wildlife Act 1974, Part 8A								
	Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth), s 12, 15B, 16, 18, 20, 21, 23								
Waste Litter	NSW - POEO Act (Section 116, 142), NSW - Waste	 Hazardous materials surveys to be completed. Materials to be removed prior to demolition Registers and waste disposal requirements as per WorkCover and OEH\EPACW\EPA requirements for removal, storage, 	Y	Waste Management Plan	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required

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Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Operational Controls Monitoring						Checking, Corrective & Preventative Action
	·		Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP
	Avoidance and Resource Recovery Act 2007 NSW –PEOAAct 1997, s 143, 144-146 NSW Crown Lands Act 1989, s 155 NSW Management of Waters and Waterside Lands Regulations - N.S.W., cl 13; NSW - PEO (Waste) Regulation 2005,	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. Empty drums are to be taken off-site for disposal. Empty drums shall be crushed prior to recycling/disposal. Do not overfill skip bins. Provide plenty for use. Cover where potential for windblown litter.							
Landfilling	NSW - POEO Act (Section 116, 142)	Reduce, reuse and then dispose Dispose of hard construction wastes for recycled gravels and sands Do not send soil to landfill until alternatives for beneficial reuse have been explored as per consultants advice. Consideration should be given to chipping of the vegetation and reuse Reuse packaging to protect works	Y	Y					As required
Chemicals	NSW - POEO Act (Section 116,	Chemicals to be stored in bunded areas (impervious + 110% of largest container) away from stormwater drains & pits. Refer Workcover Code of Practice for Storage & Handling of	Y	Y	Y	Visual	Daily	Diary Site	As required

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Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Ор	erational Contr	rols		Monitoring			
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP	
	142,) NSW - Occupational Health and Safety Regulation 2001	Dangerous Goods, OEH\EPACW\EPA Guidelines for Bunding & Spill Management. Appropriate chemicals storage is in conformance with: AS 1940 The Storage and Handling of Flammable and Combustible Liquids Storage and Handling of Dangerous Goods WorkCover Code of Practice 2005– refer p. 86 OEH\EPA requirements http://www.environment.nsw.gov.au/water/bundingspill.htm Ponded water within bunds will not be discharged to stormwater. Fuel and hydraulic leaks to be cleaned up immediately. 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 pit for washout, away from stormwater drains. Send back to batch plant where possible. Concrete cuttings to be contained and wetvac to prevent runoff into stormwater drains. Storage of bulk fuels (>200L) on site is prohibited. All refuelling shall be undertaken by a mobile facility with appropriate spill control and containment control equipment.				Inspection	Weekly	Inspection Checklist		
		MSDS's must be provided to the Foreman prior to a chemical being received on site and by subcontractors using chemicals/products.								
Traffic	Local Government Requirements	 Develop and implement traffic management plans. Submit to local council as required. Signage and notices regarding disruptions. Use crushed concrete, mulches etc along site access roads. 	Y	Traffic Management Plan	Y	Visual Inspection	Daily Weekly	Diary Site Inspection	As required	

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Environmental Aspect/Impact	Legal Requirements		Ор	erational Contr	rols		Checking, Corrective & Preventative Action		
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP
		 Install shakers and wheel wash as required. Organise regular street sweeping. Haulage routes and rules will be provided to subcontractors prior to commencing on site. All loads of soil, demolition wastes, general wastes etc are to be tarped 						Checklist	
Hazardous Materials (Lead paint)	NSW - POEO Act (Section 142)	 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 	Y	Consultants Report	Y				
Hazardous Materials (Asbestos)	NSW - POEO Act (Section 142) NSW PEO (Waste) Regulation 2005, cl 42	A licence subcontractor must be used to demolish, remove, repair or disturb asbestos. A WorkCover asbestos licence is required to remove 10 square metres or more of bonded asbestos. A Workcover licence is required to remove, repair or disturb friable asbestos.	Y		Y				

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Environmental Aspect/Impact	Legal Requirements	Environmental Actions, Controls and Criteria	Ор	erational Cont	rols		Checking, Corrective & Preventative Action		
			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP
Aboriginal heritage	National Parks and Wildlife Act 1974, s 90-91 NSW - Heritage Act 1977, s 146	 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 Office of Environment and Heritage. Work in the subject area to cease until specialist advice is obtained. 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. 	Y	Consultant Report	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
European heritage	NSW - Heritage Act 1977	 Education and training at site toolbox meetings and induction. It is illegal to destroy heritage items. Check the OEH\EPACW\EPA Aboriginal Heritage Information Management System (AHIMS). Also check the register of the National Estate. Obtain approval from NPWS (Section 90 consent). Any evidence of Aboriginal relics discovered during construction shall be reported to the National Parks and Wildlife Service. Local Land Council representatives may be required to monitor stripping/excavation. Work in the subject area to cease until specialist advice is obtained. The area will be fenced and signs erected to restrict access 	Y	Consultant Report	Y	Visual Inspection	Daily Weekly	Diary Site Inspection Checklist	As required
Emergency Preparedness		Spill kit onsite. Refer to the MSDS for advice and procedures.	Y	Y	Y	Inspection	Weekly	Site Inspection	As required

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Environmental Aspect/Impact	Legal Requirements		Ор	erational Contr	rols		Checking, Corrective & Preventative Action		
Nopodamipuot			Induction and/or toolbox	FDC	Subcont. SWMS & contracts	Туре	Frequency	Responsibi lity	NCR/ Refer EMP
		All spills must be reported to the Site Manager & cleaned up. Complete FDC Accident /Incident report.						Checklist	
		Sediment pond pumped out regularly to maintain capacity in case of emergency							
		Ensure you know where stormwater drains are and have materials to block them in case of a fire							

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LEGAL & OTHER REQUIREMENTS REGISTER

NSW WHS Legislation

- Work Health and Safety Act 2011
- Work Health and Safety Legislation Amendment Act 2011
- Work Health and Safety Regulation 2011
- Workers Compensation Act 1987
- Workers Compensation Legislation Amendment Act 2000
- Workers Compensation Legislation Amendment Act 2012
- Workers Compensation Regulation 2010
- Workers' Compensation (Dust Diseases) Act 1942
- Workers' Compensation (Dust Diseases) Regulation 2008
- Workplace Injury Management and Workers Compensation Act 1998
- Occupational Licensing (Adoption of National Law) Act 2010
- Occupational Licensing National Law (NSW)
- Licencing and Regulation (Uniform Procedures) Act 2002
- Licencing and Regulation (Uniform Procedires) Amendmeent (Photo ID) Act 2004
- Electrical (Consumer Safety) Act 2004

Federal and NSW Procurment and Industrial Relations Legislation

- Workplace Relations Act 1996
- Workplace Relations Regulations 2006
- Fair Work Building Industry Act 2012
- Fair Work Act 2009
- Building and Construction Industry (Imporving Productivity) Act 2016
- Independent Contractors Act 2006
- Independent Contractors Regulations 2010
- Building and Construction Industry Long Service Payments Act 1986 No 19
- Employment Protection Act 1982 No 122
- Industrial Relations Act 1996 No 17
- Long Service Corporation Act 2010 No 123
- Implementation Guidelines to the NSW COP for Procurment: Building and Construction July 2013

NSW Environmental Legislation

- Contaminated Land Management Act 2008
- Contaminated Land Management Regulation 2008
- Environmental Planning and Assessment Act 1979
- Environmental Planning and Assessment Regulation 2000
- Environmental Trust Act 1998
- Protection of the Environment Administration Act 1991
- Protection of the Environment Administration Regulation 2012
- Protection of the Environment Opeartions Act 1997
- Protection of the Environment Operations (Clean Air) Regulation 2010
- Protection of the Environment (General) Regulation 2009
- Protection of the Environment (Noise Control) Regulation 2008
- Protection of the Environment (Waste) Regulation 2005
- Environmentally Hazardous Chemicals Act 1985
- Environmentally Hazardous Chemicals Regulation 2008
- Heritage Act 1977
- Heritage Regulation 2012
- Local and Environment Court Act 1979
- Local Government Act 2009
- Public Health Act 2010

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- Sydney Harbour Foreshor Authority Act 1998
- Sydney Harbour Authority Regulation 2011
- Water Act 1912
- Water Management Act 2000
- Water Management (General) Regulation 2011
- Western Lands Act 1901
- Western Lands Regulation 2011

NSW Codes of Practice

Theese are the NSW SafeWork (WorkCover)Codes of Practice

- Abrasive blasting COP 2014
- Confined spaces COP December 2011
- Construction work COP July 2014
- Demolition work COP September 2016
- Excavation work COP July 2015
- First aid in the workplace COP July 2015
- Hazardous manual tasks COP September 2016
- How to manage and control asbestos in the workplace COP September 2016
- How to manage work health and safety risks COP December 2011
- How to safely remove asbestos COP September 2016
- Labelling of workplace hazardous chemicals COP April 2016
- Managing electrical risks in the workplace COP September 2016
- Managing noise and preventing hearing loss at work COP April 2016
- Managing risks of hazardous chemicals in the workplace COP July 2014
- Managing the risk of falls at workplaces COP April 2016
- Managing the risks of plant in the workplace COP July 2014
- Managing the work environment and facilities COP December 2011
- Preparation of safety data sheets for hazardous chemicals COP December 2011
- Preventing falls in housing construction COP July 2014
- Safe design of structures COP July 2014
- Spray painting and powder coating COP July 2015
- Welding processes COP September 2016
- Work health and safety consultation, coordination and cooperation COP December 2011

NATIONAL Codes of Practice and Standards

- Code for Practice for the Management and Control of Asbestos in the Workplace (published January 2005)
- Induction for Construction Work (published January 2007)
- NCP for Control and Safe Use of Inorganic Lead at Work [NOHSC: 2015 (1994)] (published October 1994)
- NCP for the Control of Workplace Hazardous Substances [NOHSC: 2007 (1994)] (published January 1994)
- NCP for Storage and Handling of Dangerous Goods [NOHSC: 2017 (2001)] (published March 2001)
- NCP for Noise Management and Protection of hearing 3rd Edition (published January 2004)
- NCP for Prevention of Musculokeletal Disorders caused from Performing Manual Handling Tasks at Work (published August 2007)
- NCP for Occupational Overuse Syndrome [NOHSC: 2013 (1994)] (published October 1994)
- NCP for Precast, Tilt-up and Concrete Elements in Building Construction (published February 2008)
- NCP for the Prevention of Fall in General Construction (published April 2008)
- NCP for the safe use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)] (published January 1990)
- National Standard for Construction Work [NOHSC: 1016 (2005)] (published January 2005)
- National Standard for Licencing Persons Performing High Risk Work (published March 2006)
- National Standard for Manual Tasks (published August 2007)
- National Standard for Occupational Noise (published January 2000)

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- National Standard for Plant [NOHSC: 1010 (1994)] (published January 1994)
- National Standard for the Storage and Handling of Workplace Dangerous Goods [NOHSC: 1015 (2001) (published March 2001)
- Safe Removal of Asbestos 2nd Edition [NOHSC: 2002 (2005)] (published Jnauary 2005)

Federal OHS

- Work Health and Safety Act 2011
- Work Health and Safety (Transitional and Consequential Provisions) Act 2011

Federal Environmental

- Environment Protection and Biodiversity Conservation Act 1999
- National Environment Protection Council Act 1994
- National Environment Protection Measures (Implementation) Act 1998
- Natural Heritage Trust of Australia Act 1997
- Sydney Harbour Federation Trust Act 2001

Australian Standards

- AS 1210 Supp 1-1990: Unfired pressure vessels Advanced design and construction
- AS 1210 Supp 2-1999: Pressure vessels Cold-stretched austenitic stainless steel
- AS 1210 -2010 Pressure Vessels
- AS 1216-2006: Class labels for dangerous goods
- AS 1228-2006: Pressure equipment Boilers
- AS 1319-1994: Safety signs for the occupational environment
- AS 1345-1995: Identification of the contents of pipes, conduits and ducts
- AS 1353.1-1997: Flat synthetic-webbing slings Product specification
- AS 1353.2-1997: Flat synthetic-webbing slings Care and use.
- AS 1418.1-2002: Cranes, hoists and winches General requirements
- AS 1418.2-1997: Cranes (including hoists and winches) Serial hoists and winches
- AS 1418.3-1997: Cranes (including hoists and winches) Bridge, gantry and portal cranes (including container cranes)
- AS 1418.4-2004: Cranes (including hoists and winches) Tower cranes
- AS 1418.5-2004: Cranes (including hoists and winches) Mobile and vehicle-loading cranes
- AS 1418.7-1999: Cranes (including hoists and winches) Builders hoists and associated equipment
- AS 1418.8-2008: Cranes, hoists and winches Special purpose appliances
- AS 1418.10-2011: Cranes (including hoists and winches) Elevating work platforms
- AS 1418.19-2007 Cranes Hoists and Winches Telescopic Handlers
- AS 1418.12-1991: Cranes (including hoists and winches) Crane collector systems
- AS 1418.13-1996: Cranes (including hoists and winches) Building maintenance units
- AS 1418.14-1996: Cranes (including hoists and winches) Requirements
- AS 1418.15-1994: Cranes (including hoists and winches) Concrete placing equipment
- AS 1418.16-1997: Cranes (including hoists and winches) Mast climbing work platforms
- AS 1418.17-1996: Cranes (including hoists and winches) Design and construction of workboxes
- AS 1418.18-2001: Cranes (including hoists and winches) Crane runways and monorails
- AS 1576.1-2010 Scaffolding
- AS 1576.2-2009: Scaffolding Couplers and accessories
- AS 1576.4-1991: Scaffolding Suspended scaffolding
- AS 1577-1993: Scaffold Planks.
- AS 1636.1-1996: Tractors Roll-over protective structures Criteria and tests Conventional tractors
- AS 1636.2-1996: Tractors Roll-over protective structures Criteria and tests Rear-mounted for narrow-track tractors
- AS 1636.3-1996: Tractors Roll-over protective structures Criteria and tests Mid-mounted for narrow-track tractors
- AS 1657-1992: Fixed platforms, walkways, stairways & ladders.
- AS 1666.1-2009: Wire-rope slings Part 1: Product specification.
- AS 1666.2-2009: Wire-rope slings Part 2: Care and use.

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- AS 1674-2007: Safety in welding.
- AS 1715-2009: Selection, Use & Maintenance of Respiratory protective devices.
- AS 1735.1-2003: Lifts, escalators and moving walks General requirements
- AS 1735.2-2001: Lifts, escalators and moving walks Passenger and goods lifts Electric
- AS 1735.3-2002: Lifts, escalators and moving walks Passenger and goods lifts Electrohydraulic
- AS 1735.4-2000: Lifts, escalators and moving walks (known as the SAA Lift Code) Service lifts -Power-operated
- AS 1735.5-2003: Lifts, escalators and moving walks Escalators and moving walks (BS EN 115:1995, MOD)
- AS 1735.7-1998: Lifts, escalators and moving walks Stairway lifts
- AS 1735.8-1986: Lifts, escalators and moving walks (known as the SAA Lift Code) Inclined lifts
- AS 1735.9-1998: Lifts, escalators and moving walks Special purpose industrial lifts
- AS 1735.11-1986: Lifts, escalators and moving walks (known as the SAA Lift Code) Fire-rated landing doors
- AS 1735.12-1999: Lifts, escalators and moving walks Facilities for persons with disabilities
- AS 1735.14-1998: Lifts, escalators and moving walks Low-rise platforms for passengers
- AS 1735.15-2002: Lifts, escalators and moving walks Low rise passenger lifts Non-automatically controlled
- AS 1735.16-1993: Lifts, escalators and moving walks Lifts for persons with limited mobility -Restricted use - Automatically controlled
- AS 1735.17-1995: Lifts, escalators and moving walks Lifts for people with limited mobility -Restricted use - Water-drive
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- AS 2294.1-2003: Earth-moving machinery Protective structures General
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- AS 2397-1993: Safe use of lasers in the building and construction industry
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- AS 2550.5-2002: Cranes Safe use Mobile and vehicle loading cranes.
- AS 2550.10-2009: Cranes Safe use Elevating work platforms.
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- AS/NZS 1418.9-1996: Cranes (including hoists and winches) Part 9: Vehicle hoists
- AS/NZS 1418.10-2011: Cranes, hoists and winches Elevating work platforms
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- AS/NZS 1576.1-2010: Scaffolding General requirements
- AS/NZS 1576.2-2009: Scaffolding Couplers and accessories
- AS/NZS 1576.3-1995: Scaffolding Prefabricated and tube-and-coupler scaffolding
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- AS/NZS 1596-2008: The storage and handling of LP Gas
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- AS/NZS 1850-2009: Portable fire extinguishers Classification, rating and performance testing
- AS/NZS 1891-2008: Industrial fall-arrest systems and devices Safety belts and harnesses

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- AS/NZS 1892-2000: Portable Ladders
- AS/NZS 2161-2008: Occupational protective gloves
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- AS/NZS 2211.1-2004: Safety of laser products Equipment classification, requirements and users guide (IEC 60825-1:2001, MOD)
- AS/NZS 2299.1-2007: Occupational diving operations Standard operational practice
- AS/NZS 2865-2009: Safe working in a confined space
- AS/NZS 3000-2009: Electrical installations (known as the Australian/New Zealand Wiring Rules)
- AS/NZS 3002-2008: Electrical installations Shows and carnivals
- AS/NZS 3012-2010: Electrical Installations Construction and demolition sites
- AS/NZS 3509-2009: LP Gas fuel vessels for automotive use
- AS/NZS 3666.1-2002: Air-handling and water systems of buildings Microbial control Design, installation and commissioning
- AS/NZS 3666.2-2002: Air-handling and water systems of buildings Microbial control Operation and maintenance
- AS/NZS 3666.3-2000: Air-handling and water systems of buildings Microbial control -Performance-based maintenance of cooling water systems
- AS/NZS 3760-2011: In-service safety inspection and testing of electrical equipment
- AS/NZS 3788-2006: Pressure equipment in-service inspection
- AS/NZS 4431-1996: Guidelines for safe working on new lift installations in new constructions.
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- AS/NZS 4576-1995: Guidelines for scaffolding.
- ISO 3471-2008: Earthmoving machinery Rollover protective structures Laboratory tests and performance requirements

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Reviewed By:	Josephine Taylor			
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ENVIRONMENTAL PERFORMANCE RATING SYSTEMS

					D 4 0 11 /	
	ABGR	GREEN STAR	GREEN GLOBE 21	NABERS	BASIX	NATHERS
	AUSTRALIAN BUILDING	FOUR, FIVE AND SIX STAR	NINE GREEN GLOBE KEY	NATIONAL	NSW BUILDING	NATIONWIDE
ENVIRONMENTAL ISSUES	GREENHOUSE RATING	RATING SYSTEM	PERFORMANCE CRITERIA	AUSTRALIAN BUILT ENVIRONMENT	Sustainability Index	HOUSE ENERGY RATING SCHEME
ADDRESSED				RATING SYSTEMS	INDLX	KATING SCHEME
Management		✓	✓	✓		
Materials		✓	✓			
Indoor Environmental Quality		✓	✓	✓		
Energy	✓	✓	✓	✓	✓	
Thermal		✓			✓	✓
Transport		✓	✓	✓		
Water		✓	✓	✓	✓	
Waste		✓	✓	✓		
Land/ecology		✓	✓	✓		
Emissions		✓	✓	✓		
Innovation		✓				
Occupancy Satisfaction		✓		✓		
Features	Office buildings greenhouse emissions	Points awarded for initiatives in design, construction and operation	Environment and social performance using Sector Benchmarking Indicators	Energy component = ABGR rating	<40% less water & energy	Energy use & thermal comfort
Application	Commercial	Commercial (Industrial, Retail, Education, Convention to be released)	Tourism & travel industry (hotels)	Office - operational	Residential	Residential
Administered By	NSW Dept. of Energy, Utilities & Sustainability	Green Building Council of Australia	Industry	NSW Dept. of Energy, Utilities & Sustainability	NSW Dept. Planning	Australian Greenhouse Office (AGO)

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PROCEDURE FOR DEALING WITH UNEXPECTED FINDS

What does Asbestos look like?







In the event you find \underline{OR} even suspect the presence of previously unidentified asbestos, you must:



Stop work immediately!!!



Report the suspected find to FDC Management for assessment and/or action



FDC Management shall set-up exclusion zone around suspect area to prevent unauthorised access



FDC shall undertake verification of the suspected material



Work must not recommence until you have received instructions from FDC Management that it is safe to do so.

Failure to adhere to the above procedure may result in disciplinary action and your removal from site.