



## Hornsby Ku-Ring-Gai Hospital Redevelopment Stage 2 Environmental Audit No. 5



### Assessment of Watpac's Environmental Management System Compliance Against ISO14001: 2015 and Project Conditions of Consent

Audit Reference:	<b>AQ1236.05</b>
Audit Organisation:	<b>Watpac Pty Ltd</b>
Auditor:	<b>Ana Maria Munoz, AQUAS</b>
Date of Audit:	<b>23 June 2020</b>
Draft Report Submitted:	<b>8 July 2020</b>
Final Report Submitted:	<b>10 July 2020</b>

# Amendment, Distribution & Authorisation Record

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## 1. Executive Summary

This audit was conducted to review the implementation of Watpac's Environmental Management System against the requirements of the AS/NZS ISO 14001: 2015 Standard and the requirements of the Project Development Consent SSD 8647. The audit was conducted by AQUAS on 23 June 2020.

This report details the findings of the fifth Environmental audit of the construction works undertaken by Watpac for the Hornsby Ku-Ring-Gai Hospital Redevelopment Stage 2. Construction activities since the previous Environmental audit included:

Milestone 2:

- Completed helipad concrete structure works;
- Completed scaffold removal on North East elevation;
- Completed Stair 4 structural steel and installation in progress;
- Progressing with completion of second lift (A2) which will be utilised for social distancing requirements;
- Substation fit out works complete, currently with Ausgrid to commission;
- Internal works such as painting and service installations progressing on the Intensive Care Units;
- Stripping of level 5, level 4 and level 3.

Milestone 3:

- Building 2 structural demolition was completed as well as remediation works;
- The Emergency Department extension works included: earth works, and ground slab poured; and
- Piling works are progressing and in-ground services trenching is to be completed.

Watpac as the nominated Principal Contractor for the project has the responsibility for the management of environmental aspects associated with the construction works.

The audit confirmed that Watpac continues to address the requirements of the Conditions of Consent and implement the required environmental controls for current site activities. Compliance with the obligations was demonstrated through the maintenance of the required environmental documentation and records including Crown Certificates, inspection reports, registers, correspondence, etc. Environmental documentation was available, including the Project Environmental Management Plan (Nov 2019), Noise and Vibration, Erosion and Sedimentation, Waste, Traffic Management Plans, Asbestos Removal Control Plan and other sub-Plans. There was evidence of inductions and regular toolbox talks to maintain environmental awareness of all workers at the site.

The implementation of environmental controls included suitable erosion and sedimentation measures within the construction area, site signage, noise and vibration monitoring, skip bins for waste and recycling in various locations, traffic controls, compliance with working hours and ongoing site monitoring.

Communications continue to be in place with the Hospital, relevant stakeholders and the community, as required. Watpac has submitted the latest Construction Compliance Report to the Department of Planning on the 17 February 2020.

No environmental incidents have occurred so far, and no non-conformances have been raised.

Three (3) opportunities for improvement were raised during the audit. The details of the audit process and findings are detailed in the following sections of this report.

## 2. Audit Scope and Objectives

### 2.1 Objective and scope of this Audit

This audit was conducted to confirm compliance of the Watpac Project Environmental Management Plan and its implementation against the requirements of the Standard AS/NZS ISO 14001:2015 and applicable requirements of the Development Consent SSD 8647 for the Hornsby Ku-Ring-Gai Hospital Stage 2 Redevelopment Project.

### 2.2 Scope of Audit

The audit reviewed Watpac's implementation of their Environmental Management System for the construction activities currently taking place as part of the Hospital Stage 2 redevelopment project.

### 2.3 Date and Location of Audit

The audit was conducted on 23 June 2020 at the Hornsby Ku-Ring-Gai Hospital Stage 2 site – Palmerston Rd, Hornsby NSW 2077.

## 3. Audit Methodology

### 3.1 Opening Meeting

An opening meeting was held with personnel from APP Corporation, Watpac and AQUAS as per the Audit Attendance Sheet (see **Appendix A**) on 23 June 2020 at 8:30am.

Key items were discussed as follows:

- Confirmation of the purpose and scope of the audit.
- Overview of the Project and current status of the works.
- Occurrence of Environmental incidents.
- Overview of the audit process in accordance with the proposed Audit Program.

### 3.2 Audit Process

The audit commenced with a site walk where status of construction works and relevant environmental controls in place were observed. The site walk was followed by review of records and general discussions with Watpac staff for verification of the Environmental Management System implementation on the project.

Name and position of persons interviewed:

Name	Organisation	Position
Mark Cahalin	Watpac	Project Manager
Helena Veljovic	Watpac	Building Cadet / PEO
Yianni Venetis	APP	Project Manager

Details of the outcomes of the review can be found in the completed Audit Checklist (see **Appendix B**).

### 3.3 Audit Criteria

The following audit criteria/ratings were used for the rating of audit findings.

Audit Findings Rating	
N-Major	– Major Non-Conformance
N-Minor	– Minor Non-Conformance
OFI	– Opportunity for Improvement
NA	– Not Triggered/Not Applicable

### 3.4 Closing Meeting

The closing meeting was held on 23 June 2020 at 2:00pm with representatives of APP Corporation, Watpac and AQUAS. General feedback and the findings of the audit were discussed during the closing meeting.

AQUAS auditors acknowledged the cooperation, openness and hospitality of Watpac staff during the conduct of this audit.

## 4. Audit Findings

### 4.1 Audit Overview

The audit determined that Watpac has well implemented controls for environmental management within the construction activities currently being undertaken. Three opportunities for improvement (OFI) were raised during this audit. The following is an overview of key Environmental areas reviewed in this audit:

#### 4.1.1 Environmental Policy

- The HSEQ Policy is in place (last reviewed on 8 November 2019), has been communicated to all personnel and is available on the Watkins internal website and Watpac website.
- The Project Environmental Management Plan (PEMP) – December 2019 (Rev.6) has been implemented to minimise and control any harm to the environment. Plan outlines environmental objectives and targets which are been monitored and achieved through inspections and audits.

#### 4.1.2 Leadership, Planning and Resources

- The organisational chart was reviewed on 11 October 2019 - Revision 11; however it was noted that the Project Management Plan (Revision 3) refers to an old version of the chart (January 2019 – Revision 5). Watpac to update the PMP with latest version of the chart. **OFI-01.**
- Responsibilities for the Construction/Operations Manager and Quality and Environment Manager have been defined in the PEMP section 3.2.
- A number of trades are working on different project activities, e.g. concreting, internal services, earth works, waste removal, traffic controlling, etc.
- The PEMP contains detailed information of the relevant environmental aspects, impacts and controls. It was noted that the environmental risk assessment is still at the first revision (12 March 2017) and it gets reviewed at every milestone of the project. No changes have been made as it is still relevant to the project at the time of the audit.
- A legal requirements register continues to be in place, the aspects identified in the PEMP have a section where legal requirements are referenced. No major changes have been identified.
- Modification 3 (MOD 3) was approved by the Department on the 6 April 2020 regarding the establishment and use of a helipad structure.

#### 4.1.3 Support

- Project site inductions continue to be delivered to Watpac staff and subcontractors. Induction contains awareness of environmental measures to be considered during construction.
- Toolbox Talks and pre-starts continue to be conducted to maintain ongoing awareness of safety and environmental matters onsite. Due to Covid-19, the frequency of toolbox talks has been changed and it is now carried out periodically in the Darug Meeting room.
- Internal and external communications continue to be managed through emails, subcontractor and client meetings, Aconex transmittals, etc. Community communications, e.g. letterbox drops delivered to neighbours for extended working hours.
- The PEMP was reviewed during December 2019 (Rev.6) and a copy of the Plan was sent to DPIE on the 7 April 2020 along with the Construction Compliance Report completed on the 17 February 2020. The proponent (APP/ HI) needs to ensure that after a revision is made to the PEMP, a copy is submitted to DPIE within six weeks of the review. **OFI-02.**
- Relevant environmental records are maintained in different ways, e.g. hard copies in folders, stored in the Aconex System, Watkins and 3D safety App and/or filed in the office shared drive.

#### 4.1.4 Operation

- Maintenance of plant and equipment used onsite continue to be controlled through the mobile 3D safety App. Service. Sighted evidence of logbook check completed for the EWP on the 23 June 2020.
- Site signage was in place with all the project required information.
- Emergency Response Procedures were updated by the LHD with regards to the Medical Gas Supply after replacement of the bulk oxygen tank. Sighted correspondence 26 June 2019.
- A new dilapidation report by Cardno for the new access road (council access) was completed on the 24 January 2020.
- Substation fit out works were completed and currently with Ausgrid to commission.
- Trees have been protected on Palmerston Road.
- Noise monitoring readings continue to be undertaken as part of weekly inspection.
- Waste data was sighted for April 2020 by Grass Hopper. In total 94.38% recycling was achieved for the month (target is above 80%).
- Bins and containers for different waste types were available throughout the site.
- Water has been tested and discharged to stormwater after verification of measurements. Sighted Water Meter Report Card on the 17 March 2020 for control of water quality, turbidity and pH within limits. It was suggested that the Water Meter Report Card includes the location where the water is being taken from. **OFI-03.**
- Demolition (structural) works started as part Milestone 3 in April 2020, demolition of Building 2 was completed. Dust suppression was used during the demolition works.
- Asbestos air monitoring was done by EHO Consulting during the demolition, sighted records for the 20 April 2020 and 15 May 2020.
- Erosion and sedimentation controls were in place around the site, including sandbags around drains and silt fencing.
- The perimeter of the project site is fenced and is monitored for graffiti and advertising material.
- Chemical storage and diesel containers were in place and flammable liquids were banded.
- Spill kits were available in the site as well as First Aid Kits. Watpac to ensure that spill kits are accessible at all times with no obstructions around them - **Note.**
- Levels of communication with the Hospital in the event of an emergency continue in place.

#### 4.1.5 Performance Evaluation

- Environmental inspections are conducted by the contractor weekly. Inspection reports were available including photos of controls in place during each inspection. Sighted inspection



- conducted on the 10 February 2020 and 24 April 2020.
- Noise monitor equipment was purchased on the 10 October 2019.
- Vibration monitoring was carried out directly by Acoustic Logic.
- Dust continue being monitored onsite. Sighted report from Prensa re. silica and respirable dust assessment on the 16 September 2019. Attached to the report there is the calibration certificates for the air-met scientific equipment – TSI Dusttrak 29 July 2019.
- The Construction Compliance Report was prepared on the 17 February 2020 and submitted to the DPIE 7 April 2020. A letter was sighted from DPIE dated 2 June 2020 indicating the report was generally satisfactory to the Consent Conditions.
- The project information required under Condition C27 a) iv) has been published in the NSLHD and Health Infrastructure websites. Regular reporting on environmental performance and monitoring results is still pending to be done - **Note**.

#### 4.1.6 Improvement

- The Non-conformance Register continue to be in place, corrective actions for quality, safety and environmental issues have been raised and actioned, as necessary.
- No environmental incidents or non-compliances have been identified so far in the project.
- A Project Complaint Register continue been maintained and details about complaints has been recorded including resolution reached. From January to June 2020, there have been 4 complaints raised and all of them have been properly addressed and closed out.
- The 24-hour enquiries number and email address continue to be available for the community.

#### 4.2 Previous Audit (December 2019) Recommendations

Audit findings were reviewed in detail with Watpac and AQUAS confirmed that responses and actions were appropriate to close out the one of the opportunities for improvement raised during the audit conducted on the 10 December 2019, as detailed below.

Finding No.	SSD Ref. No.	Finding	Comment/ Recommendation	Watpac Actions
OFI-01	SSD Cl. C23	Construction site signage does not include the authorised hours of work as per the requirement of Condition C23 (iii).	Consider including the authorised hours of work in the site signage.	Project signs are in place on site and include project information. Two different new signs were posted in December 2019, which included the construction hours of work. <b>Closed</b>
OFI-02	SSD Cl. C27	Not all the project information required under Condition C27 a) iv) has been published in the HI website. The audit noted that condition C27 a) iv) regular reporting on environmental performance and monitoring results is missing.	Consider including the records of noise monitoring and water testing in the HI project website.	Water Discharge Reports from 13/1/2020 and 18/09/2019 were presented. Noise monitoring results are part of the Environmental Inspections, sighted 10/2/2020. Project team is working towards creating a register and publishing the results in the website. <b>In progress</b>



### 4.3 Identified Findings

The table below outlines the findings raised during the audit:

Finding No.	Ref.	Finding	Comment/ Recommendation
OFI-01	ISO 14001 Section 7.1	<u>Resources, Roles and Responsibilities</u> The Contractor has identified and provided the resources required to implement the EMS for the project.	Project Organisational Chart showing resources in place was updated on the 11 of October 2019. It was noted that The Project Management Plan (PMP) has an old version of the Project Organisational Chart (January 2019 - Revision 5). Watpac to update the PMP with latest version of the Organisation Chart.
OFI-02	SSD Cl. A15	<u>Revision of Strategies Plans and Programs</u> Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review.	The Project Environmental Management Plan (PEMP) was reviewed during December 2019 (Rev.6) and a copy was sent to the DPIE in 7 April 2020 (about 15 weeks after the review). Proponent needs to ensure that every time the PEMP is reviewed a copy is submitted to the DPIE within six weeks of the review.
OFI-03	SSD Cl. C36	<u>Trade Waste</u> Liquid trade waste generated on the site must be discharged in accordance with a trade waste agreement with Sydney Water and by a licensed liquid trade waste contractor.	A Water Meter Report Card for control of water quality was completed on the 17 March 2020. The water turbidity and pH were within limits and it was ok to discharge out to the stormwater. It was suggested that the Water Meter Report Card includes the location where the water was taken from.

## 5. Conclusion

This audit was completed to assess the environmental controls established by Watpac against the requirements of the Development Consent for the project. The audit confirmed that Watpac has implemented its Environmental Management System to a satisfactory level, with three opportunities for improvement identified as part of the review.


One of the previous audit opportunity for improvement regarding the reporting of environmental performance and monitoring results in the project website still in progress and will be followed-up in the next environmental audit.

The following table summarises this audit findings by rating category:

Findings Rating	Findings
Major Non-Conformance	0
Minor Non-Conformance	0
Opportunity for Improvement	3

It is suggested Watpac takes the feedback from this audit as an opportunity to make improvements in Environmental performance during the progress of the Project.

## Appendix A. [Audit Attendance Sheet]

**AUDIT ATTENDANCE SHEET** 

PROJECT: Hornsby Hospital AUDIT No.: AQUAS AQ.1236.05

AUDITEE: Watpac LEAD AUDITOR: Ana Munoz

MEETING LOCATION: Project site office - Palmerston Rd.

OPENING MEETING DATE AND TIME: 23/06/20 8:30am

CLOSING MEETING DATE AND TIME: 23/06/20 2:00pm

NAME	ORGANISATION	POSITION	SIGNATURE	
			OPENING MEETING	CLOSING MEETING
Ana Munoz	AQUAS	Environmental Auditor	<i>[Signature]</i>	<i>[Signature]</i>
BRAD EMBURY	APP	PM	<i>[Signature]</i>	-
Mark Canavan	WATPAC	P.M	<i>[Signature]</i>	-
Yiani Venets	APP	P.M	<i>[Signature]</i>	<i>[Signature]</i>
Helena Veyoung	Watpac	cadet / PEO	<i>[Signature]</i>	<i>[Signature]</i>
Auêlie Belle	WATPAC	S.P.E	<i>[Signature]</i>	<i>[Signature]</i>

Date: 04.06.14 F-02 Audit Attendance Sheet Rev.1 Page: 1 of 1  
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## Appendix B. [Audit Checklist]

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
<b>1.0</b>	<b>Environmental Policy (5.2)</b>			
1.1	5.2	The Contractor has an Environmental policy authorised by top management and is communicated to all persons working for or on behalf of the organisation and available to the public	HSEQ Policy reviewed – dated 8/11/19, signed by new CEO. Policy is displayed site office close to the induction room. Available in the Watkins internal website, the Watpac webpage and site office.	Y
1.2	Environmental Objectives and planning to achieve them (6.2)			
1.3	6.2.1	The Contractor has documented and measurable environmental objectives and targets for the project. Objectives and targets are communicated	PEMP section 2.0 and 2.3 - KPIs for each of the aspects. Objectives are communicated through the use of the PEMP. Sighted weekly environment inspection checklists dated 10/2/20, 23/02/2020, 22/06/2020 and 11/6/2020 where some targets are measured.	Y
1.4	6.2.2	The Contractor has established, implemented and maintained a plan(s) for achieving its objectives and targets	Done through PCG Monthly Reports sighted May 2020 report. Waste data from April 2020 by Grass Hopper 94.38% recycling for the month (Target is above 80%).	Y
<b>2.0</b>	<b>Leadership (5.0), Planning (6.0) and Resources (7.1)</b>			
2.1	Resources, roles, responsibility and authority (5.3)			
2.2	7.1	The Contractor has identified and provided the resources required to implement the EMS for the project, including: <ul style="list-style-type: none"> <li>- human resources and specialised skills – Org Chart</li> <li>- technology &amp; financial resources</li> </ul>	Project Organisational Chart showing resources in place was updated on the 11 of October 2019. It was noted that The Project Management Plan (PMP) has an old version of the Project Organisational Chart (January 2019 - Revision 5). <b>OFI:</b> Watpac to update the PMP with latest version of the Organisation Chart.	<b>OFI-01</b>
2.3	5.3	Roles, responsibility and authority have been defined, documented and communicated in order to facilitate environmental management.	Position descriptions available for each employee. PEMP Section 3.2.1 outlines environmental responsibilities for key roles, e.g. <ul style="list-style-type: none"> <li>- Construction/Operations Manager</li> <li>- Quality and Environmental Manager</li> <li>- Project Manager</li> <li>- Project Environmental Coordinator</li> <li>- Independent verification staff</li> <li>- Site Manager</li> <li>- Foreman</li> </ul>	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
			<ul style="list-style-type: none"> <li>- Contract Administrator</li> <li>- Direct labour</li> <li>- Subcontractors and suppliers.</li> </ul>	
2.4	-	<p>A management representative(s) has been appointed by the Contractor and has defined roles, responsibilities and the authority for:</p> <p>a) ensuring the EMS is established, implemented and maintained in accordance with the Standard</p> <p>b) reporting to top management on EMS performance for review, including recommendations for improvement</p>	Project Manager / QSE Manager assisted by Project Cadet as required.	Y
2.5	Environmental aspects (6.1.2)			
2.6	6.1.2	<p>The Contractor has identified the environmental aspects of its activities, products and services – and those with significant environmental impacts.</p> <p>This has considered planned or new developments, or new or modified activities, products and services.</p>	<p>Aspects outlined in PEMP Section 5.2 and 5.3 lists the most relevant aspects and controls.</p> <p>Environmental Risk Assessment C-FRM-018 in place. It analyses all possible risks, some standard for all projects, some specific, last reviewed on the date 12/03/2017 (version 1 - Appendix 6.2).</p>	Y
2.7	6.1.2	The Contractor has documented this information and kept it up to date – Aspects/Impacts Register	<p>Documented in section 5.3. Environmental Risk Assessment (PEMP Appendix 6.2) dated 12/3/17 – contains generic aspects/impacts.</p> <p>That is still at the first revision and will be reviewed at every milestone of the project. No changes have been made as it is still relevant to the project at this time.</p>	Y
2.8	Compliance Obligations (6.1.3)			
2.9	6.1.3 9.1.2	The Contractor has identified all legal and other requirements relevant to its environmental aspects and how they apply to the project. There is a procedure for periodically evaluating compliance and records are maintained?	<p>Legal Requirements Register in place (Appendix 6.6) includes the general requirements for project - not specific; also, section 5, under each of the listed aspects has as legal reference.</p> <p>Last change to the SSD Conditions was MOD 3 regarding the Helipad fit-out dated 6/4/2020. This was communicated to Watpac via Aconex 7/4/2020. Compliance is documented within the Construction Compliance Report (last one 17/02/2020) and weekly environmental inspections. Changes are made in the PEMP when required.</p>	Y

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
2.10	A1	All reasonable and feasible measures must be implemented to prevent, and if prevention is not reasonable and feasible, minimize, any material harm to the environment than may result from the construction and operation of the development.	There was no material harm reported to date. The site activities during this audit were scaffolding, framing, internal works and demolition of building 2. Sighted records for environmental inspection on 10/2/20, 23/02/2020, 22/06/2020 and 11/6/2020. No observations were raised during the site inspection.	Y
2.11	A2	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 RtS and RtS Addendum; d) generally, in accordance with HHR Stage 2 Statement of Environmental Effects Section 4.55(1A) Modification to Incorporate Extensions of the Vertical Circulation Structures and Roof Form to Accommodate a Future Helipad; e) generally, in accordance with HHR Stage 2 Statement of Environmental Effects Section 4.55(1A) Modification for the establishment and use of Helipad structure; and f) in accordance with the approved plans.	The development has been carried out in accordance with all written directions of the Department and the approved plans. Sighted MOD 3 Helipad Fit-out approved by the Department 6 April 2020. Approved plans (latest version as per MOD 3) have been posted in the Department of Planning website.	Y
2.12	A9, A10	<b>Applicability of Guidelines</b> – If directed by the Planning Secretary, the Contractor has ensured compliance with <b>updated or revised versions</b> of applicable guidelines, protocols, Standards or policies referenced in the Conditions of Consent (otherwise compliance is required with any referenced guidelines, protocols, Standards or policies in the form they are in as at the date of this consent).	Not Triggered.  Note: Watpac consulted about compliance with newer requirements regarding cladding and were not required. Noted that the BCA Code 2016 has been updated, but project works to that one. Also noted amendment to SSD Conditions for inclusion of the helipad MOD 3.	NA
2.13	A8	<b>Structural Adequacy</b> – All new buildings and structures, and any alterations or additions that are part of the development, must be constructed in accordance with the relevant requirements of the BCA.	Crown Certificates CC1 - 12/07/2018 and CC2 - 11/10/2018. Crown Certificates received covers 30/4/19 for remaining works (CC3), including extension of Emergency Dept, front of house and others. * * * Crown Certificate CC4 No. CRO-18155 dated 25/09/2019 for Helipad structural works. Includes: architectural design, lift design	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement



Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
			certificate, compliance statement, piling design statement and structural design statement.	
2.14	B9	The Contractor has ensured works are designed and constructed to provide access and facilities for people with a disability in accordance with the 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.	iAccess consultants provided a report 25 September 2017 with all the provisions for DDA requirements. This forms part of submission to the certifying authority (Blackett Maguire) for certification. Crown Certificate 3 references the iAccess Report dated 25 February 2019 with design changes incorporated.	Y
2.15	B13	<b>Structural Drawings</b> Prior to commencement of works, the Applicant must submit for approval of the Certifying Authority structural drawings prepared and signed by a suitably qualified practising Structural Engineer that demonstrates compliance with: a) the relevant clauses of the BCA; and b) this development consent.	BCA Crown Certificate references the SSD 12/07/2018 Blackett Maguire and Goldsmith – drawings and other docs received (e.g. certifications) BCA Crown Certificate 2 of 11/10/2018 – sighted certificate with drawings and structural adequacy. Crown Certificate 3 of 30/4/19 includes any remaining drawings.	Y
2.16	B15	All <b>mechanical ventilation systems</b> must be installed in accordance with Part F4.5 of the BCA and must comply with the AS 1668.2-2012. Details must be submitted for approval of the Certifying Authority prior to commencement of the relevant works.	This is a permanent design item, done to BCA and relevant Australian Standards. - Item 19 of Crown Certificate - Item 7 of Crown Certificate Dewpoint Report of 6/2/2019 has references to SSD conditions B15, B16 and others (part of Crown Cert. 3).	Y
2.17	B16	The installation, operation and maintenance of <b>warm water systems and water-cooling systems</b> must comply with the Public Health Act 2010, Public Health Reg. 2012 and Pts 1 and 2 (or Pt 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.	Dewpoint Group is the mechanical contractor. Sighted Certificate of Design Mechanical dated 6/2/2019 and revised on 22/3/2019. Cooling Towers have been put in place in March 2020 but have not been connected yet. Work in progress.	Y
2.18	A21	For work costing \$25,000 or more, a Long Service Levy must be paid.	Long Service Levy has been paid – Receipt No. 00399139 of 2 October 2019.	Y
2.19	C24	To protect the safety of work personnel and the public, the Subject Site must be adequately secured to prevent access	Site was secured, locked-up at the end of the day, for the construction site there is a security guard during the day, then at	Y

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		by unauthorised personnel, and work must be conducted at all times in accordance with relevant Work Cover requirements.	<p>night the hospital has security guards. Wayfinding signage was clear.</p> <p>Carry out WHS walks, e.g. sighted Construction Work Site Checklist APP/Hi/Watpac 15/6/2020 (weekly) and items that need to be rectified are documented in safety issues register. Sent via Aconex and any issues raised followed up (Aconex response by Watpac).</p>	
<b>3.0</b>	<b>Support (7.0)</b>			
3.1	Competency, training and awareness (7.2, 7.3)			
3.2	7.2	<p>The Contractor has ensured that employees and subcontractors are competent on the basis of appropriate education, training or experience.</p> <p>Relevant training and competency records have been retained.</p>	<p>HR recruitment process managed by head office.</p> <ul style="list-style-type: none"> <li>- Subcontractors competencies managed tendering process – selection of qualified personnel – questionnaire to be completed.</li> <li>- Workers go through a Watpac online induction (general) and then there is a site-specific induction.</li> </ul>	Y
3.3	7.3	<p>The Contractor has established a procedure to provide awareness to employees and subcontractors on:</p> <ol style="list-style-type: none"> <li>the importance of conformity with the environmental policy, procedures and requirements of the EMS</li> <li>the significant environmental aspects and related actual or potential impacts associated with their work, and the environmental benefits of improved personal performance,</li> <li>their roles and responsibilities in achieving conformity with the EMS</li> <li>the potential consequences of not following the relevant procedures.</li> </ol>	<p>All staff go through project induction. This includes working hours, hazardous substances, emergencies, lighting, and other specific environmental elements.</p> <p>Sighted induction form including Environment section. Sighted example of induction #1560 dated 10/12/19 and re-induction for quick plumbing dated 19/7/2019.</p> <p>Have some subcontractors providing training in other language e.g. partition and façade contractor delivered training in Chinese.</p> <p>Toolbox talks are conducted every Monday (whole site) and daily pre-start (3D safety app).</p>	Y
3.4	C31	The Contractor must ensure that all of its employees, contractors (and their subcontractors) 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.	<p>Apart from inductions and Toolbox Talks, Watpac provides to subcontractors the SSD conditions and the requirement to comply with all applicable project requirements.</p> <p>Changes to the SSD conditions were communicated to subcontractors, e.g. Aconex Ref. WTPC-RFI-002418 Variation (Mail No. WTPC-VDRCT-000254) of 15/11/19 to Westform Formwork regarding changes due to the new helipad.</p>	Y



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			Toolbox talks continue being undertaken (due to covid-19 they are carried out periodically), sighted example on 8/5/2020 presented Discussed scaffold stripping and exclusion zones. Also sighted 9/9/19 toolbox talk re. rubbish being left on the road.	
3.5	Communication (7.4)			
3.6	7.4.2	Procedures are in place for ensuring internal communication with regard to the environmental aspects and the EMS	<ul style="list-style-type: none"> <li>- Communications about updated forms and other system updates from Head Office are received via email.</li> <li>- Fortnightly team meetings continue in place, sighted for 3/6/2020: environmental item re. smoking around the site and the hospital.</li> <li>- Weekly subcontractor meetings: sighted minutes for 13/6/2020, 11/6/2020 discussion on street sweeper and keeping the site clean and tidy.</li> </ul>	Y
3.7	7.4.3	Procedures are in place for communications with external parties, e.g. <ul style="list-style-type: none"> <li>a) EPA, Council, Hospital, others</li> <li>b) Community engagement – provision of information, sensitive receivers, follow up</li> </ul>	<p>Contractors meeting – every 2 weeks APP, HI and Watpac, go through design, HSE, program, construction.</p> <p>Weekly DW Meeting to discuss any disruptive works. E.g. DW No. 144 dated 12/6/2020 for disruptive works due to hydrant pump being delivery on the 24/6/2020. Sighted Disruptive works notices register 18/6/2020.</p> <p>HI mostly deals with communications to Planning e.g. sent the Compliance Report for Feb 2020.</p> <p>With Council – No recent communications; there will be one for the traffic management (TCP) for when the tower crane will come down – 24-27 of July 2020 from 5pm-7.30pm.</p> <p>Community – nothing can be sent without APP/HI and Planning approval e.g. out of hours works. HI liaises with community.</p>	Y
3.8	A7	<p><b>Evidence of Consultation</b> – Where conditions of this consent require consultation with an identified party, the Applicant must:</p> <ul style="list-style-type: none"> <li>a) consult with the relevant party prior to submitting the subject document for approval; and</li> <li>b) provide details of the consultation undertaken, including:</li> </ul>	<p>There have been letter box drops delivered to neighbours, e.g. 20/5/19 – extended hours for concrete pour. These have to be approved by HI. No recent ones.</p> <p>Has approval from Council for parking vehicles when required – paid a fee for that.</p>	Y

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		<ul style="list-style-type: none"> <li>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</li> <li>ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.</li> </ul>		
3.9	B1	<p><b>Notice of commencement of works</b></p> <p>If the construction or operation of the development is to be staged, the Contractor has notified the Department, Certifying Authority and Council, of the date of commencement and the development to be carried out in that stage. This is to be done in writing and at least 48 hours before commencement of each stage</p>	<p>Sighted letter of 28<sup>th</sup> June – ‘Notification of Commencement’</p> <p>A letter was dropped to neighbours for info +/- 130 residents.</p> <p>Next stage will be part of a different approval.</p>	Y
3.10	Documentation (7.5)			
3.11	7.5	<p>The Contractor has procedures for control of documents and records, which includes:</p> <ul style="list-style-type: none"> <li>a. approval of documents for adequacy prior to issue</li> <li>b. review and update and re-approval</li> <li>c. ensuring that changes and the current revision status of documents are identified</li> <li>d. ensuring that relevant versions of applicable documents are available at points of use</li> <li>e. ensuring that documents remain legible and readily identifiable</li> <li>f. ensuring that relevant documents of external origin for the planning and operation of the EMS are identified and their distribution controlled</li> <li>g. preventing the unintended use of obsolete documents and applying suitable identification to them if they are retained for any purpose</li> </ul>	<ul style="list-style-type: none"> <li>- Uses ‘Watkins’ system – has all current system documents, templates, forms, etc.</li> <li>- Aconex – project specific documentation e.g. the EMP + reports</li> <li>- Authorisation in the plan.</li> <li>- Documents are available in the server.</li> <li>- Have access to the NSW Gov. page for the project e.g. for SSD conditions.</li> <li>- Aconex docs – only have the current versions (older not shown)</li> <li>- G-Drive – have a ‘superseded docs’ folder</li> <li>- Some docs / records in G:/ Drive</li> <li>- Web FM – web-based portal for management of defects.</li> <li>- Evidence of reviews/ updates / approval, e.g. sighted transmittal from Watpac to APP of updated drawings on 27/11/19, then APP would circulate to others, as required.</li> </ul>	Y
3.12	B22, B23	<p>Construction Environmental Management Plan</p> <ul style="list-style-type: none"> <li>a. Prior to the commencement of construction works, a CEMP must be submitted for the <b>approval</b> of the Certifying Authority. The CEMP must address, but not be limited to, the following matters where relevant: <ul style="list-style-type: none"> <li>i) hours of work;</li> <li>ii) 24-hour contact details of site manager;</li> </ul> </li> </ul>	<p>Sighted PEMP dated December 2019 (Rev.6) authorised by PM.</p> <ul style="list-style-type: none"> <li>a) Transmittal to HI/APP 20/03/2018 via Aconex – original plan</li> </ul> <p>Email of 19/09/2018 – sent updated plans to Planning NSW.</p> <p>Sighted Aconex email of 12/04/2018 to the Certifier; no comments have been received from either party.</p>	Y

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Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<ul style="list-style-type: none"> <li>iii) traffic management, in consultation with Council and TfNSW;</li> <li>iv) construction noise and vibration management prepared by a suitable qualified person;</li> <li>v) management of dust and odour to protect the amenity of the neighbourhood;</li> <li>vi) erosion and sediment control;</li> <li>vii) stormwater control and discharge;</li> <li>viii) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the Subject Site;</li> <li>ix) procedures for encountering groundwater during construction works;</li> <li>x) external lighting in compliance with AS4282:1997 Control of the Obtrusive Effects of Outdoor Lighting;</li> <li>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);</li> <li>xii) a protocol detailing appropriate proceed. for identifying and dealing with unexpected finds of archaeological heritage;</li> <li>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;</li> <li>xiv) waste storage, recycling and litter control;</li> </ul> <p>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</p> <p>c. The Applicant must submit a copy of the CEMP to the Department and Council prior to commencement of work.</p> <p>The CEMP must be implemented by the contractor for the duration of the construction works</p>	<p>Aconex internal submission of CMP and WMP dated 17/12/19 was provided as supplementary evidence. Submission was made after the Independent Environmental Audit – Note.</p> <p>Aspects required in SSD Cl. B22 addressed generally in:</p> <ul style="list-style-type: none"> <li>- PEMP and Sub-Plans and Emergency Response Plan</li> <li>- Traffic mgt is an Appendix to the Safety Management Plan.</li> <li>- PEMP Aspects (Section 5)</li> </ul> <p>b) Has a Noise and Vibration for Hospital as a ‘sensitive receiver’ (not in the SSD) – but not been submitted to the client.</p> <p>c) Plan was submitted – as per item a) above.</p>	
3.13	B24, B25	<b>Construction Noise and Vibration Management Plan</b> to be submitted for approval of the Certifying Authority, to be	CNVMP in place Rev 0 by Acoustic Logic, Doc 20180872.1/0624A/R0/TT of 24/06/18. Sighted submission to Blakett Maguire &	Y

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		<p>implemented for the duration of the project and to be revised from time to time. Plan to address the following:</p> <ul style="list-style-type: none"> <li>i) be prepared by a suitably qualified expert;</li> <li>ii) be prepared in consultation with Council and all adjoining noise sensitive receivers where noise levels exceed the construction noise management levels, in accordance with EPA guidelines;</li> <li>iii) describe the measures to be implemented to ensure               <ul style="list-style-type: none"> <li>&gt; best management practice is being employed;</li> <li>&gt; compliance with the relevant conditions of this consent;</li> </ul> </li> <li>iv) describe the proposed noise and vibration management measures in detail;</li> <li>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;</li> <li>vi) describe the consultation undertaken to develop the strategies in v) above;</li> <li>vii) evaluate and report on the effectiveness of the noise and vibration management measures; and</li> <li>viii) include a complaints management system that would be implemented for the duration of the construction works.</li> </ul> <p>The Contractor must submit a copy of the plan to the Dept. and to the Council prior to commencement of work. B25 – The CNVMP must be implemented by the contractor for the duration of the construction works.</p>	<p>Goldsmith, Aconex communication WTPC-GCOR-000647 of 29/6/18. No recent updates.</p> <p>Acoustic logic Report – has recommendations for noise &amp; vibration controls. Baseline reference noise measured.</p> <p>The Council has copy of the Plan. Follow requirements for noise management, e.g. excavation works not to start before 8:00am.</p> <p>Strategies e.g. Acoustic logic did measurements/ monitoring to get info for preparation of the Plan.</p> <p>Consultation was not required specifically for the Plan at this stage. Any disruptions managed during the DW process, E.g. DW No. 144 dated 12/6/2020 for noisy works due to removal of trees to be conducted next week.</p> <p>The Plan includes recommendations for complaints management.</p> <p>There are 6 points for noise monitoring outlined in the Plan. The monitoring will be undertaken at the points as they become relevant through different milestones.</p> <p>There were 2 permanent vibration monitors during the demolition in April/May 2020. Exceedances were reported to the Hospital. Sighted report dated 14 May to 27 May 2020.</p>	
3.14	B26, B27	<p><b>Construction Waste Management Plan</b> to be submitted for approval of the Certifying Authority, to be implemented for the duration of the project and to be revised from time to time. Plan to address the following:</p> <ul style="list-style-type: none"> <li>i) recycling of demolition materials including concrete; and</li> <li>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.</li> </ul> <p>Details demonstrating compliance with the relevant legislative requirements, associated with the removal of hazardous waste, particularly the method of containment and control of</p>	<p>CWMP in place, Rev. 01 27/June 2018 – Submitted to the Certifier via Aconex communication WTPC-GCOR-000647 of 29/6/18. Sighted Crown Cert. of 12/7/18 referencing the Plan.</p> <p>Plan was updated 30/10/19 (Rev.2) to change the template to reflect new branding and new Appendix 1.</p> <p>Use grasshopper as removal subcontractor.</p> <p>Purpose, Goal is to reuse / recycle 80% of waste.</p> <p>Has +/- 8 different waste streams: concrete, steel/ metal, timber, plastic/ paper/ cardboard.</p>	Y

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		<p>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;</p> <p>The Contractor 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</p> <p>The Contractor must submit a copy of the plan to the Department and the Council prior to commencement of work.</p> <p>B27 – The CWMP must be implemented by the contractor for the duration of the construction works</p>	<p>Has identification and management of hazardous materials. Also, has tracking of vehicles transporting hazardous materials (take number plates) and they send dockets.</p> <p>Grasshopper would collect, and segregate waste offsite as required.</p> <p>Copy of the Plan submitted – as part of the Crown Certificate.</p>	
3.15	B28, B29	<p><b>Construction Traffic and Pedestrian Management Plan</b> to be submitted for approval of the Certifying Authority, to be implemented for the duration of the project and to be revised from time to time. Plan to address the following:</p> <ul style="list-style-type: none"> <li>i) location of proposed work zones &amp; haulage routes;</li> <li>iii) construction vehicle access arrangements;</li> <li>iv) construction hours &amp; construction program;</li> <li>vi) predicted construction traffic volumes and vehicle movements, types and routes including any known road closures and consideration of alternate routes;</li> <li>vii) assessment of road safety at key intersections and locations subject to heavy vehicle movements and high pedestrian activity;</li> <li>viii) details of construction vehicle movements including parking, dedicated vehicle turning areas and ingress and egress points;</li> <li>ix) details of anticipated peak hour and daily truck movements to and from the site;</li> <li>x) details of access arrangements for workers to/from the site, emergency vehicles and service vehicle movements;</li> <li>xi) details of temporary cycling and pedestrian access during construction;</li> <li>xii) details of proposed construction vehicle access arrangements at all stages;</li> <li>xiii) loading and unloading;</li> </ul>	<p>CTPMP – Part of the Safety Management Plan (Appendix F) Rev. 1 March 2018. There are new TMPs submitted to APP on 4/12/19 to include a new entrance for Milestone 3 (demolition area). Plan was sent to Hornsby Council 12/12/19 approved by APP/Hi on the 19/12/19. Plan was communicated to any other relevant parties. Plans are implemented. 3 main types of plans:</p> <ol style="list-style-type: none"> <li>1. CTMP – overarching prepared by RMS <ul style="list-style-type: none"> <li>- Approved routes</li> <li>- Not affected by peak hour traffic</li> </ul> </li> <li>2. TCPs – e.g. for general site entry and egress; for crane erection, delivery of equipment. Sighted TCP 084/01 dated 6/3/2020 for Milestone 3, vehicle access via Palmerston Road.</li> <li>3. VMP (Vehicle Movement Plans) – e.g. delivery of tower crane equipment. Sighted VMP dated 06/12/19 for Milestone 3.</li> </ol> <p>Sighted permit for a temporary full/partial road closure at Palmerston Road dated 23/03/2020 from Hornsby Shire Council, (just helping the trucks flow to the construction entrance). Permit was granted from 23/3/2020 to 23/9/2020 from 6.30am to 5.30pm.</p>	Y

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		<p>xiv) details of management measures to minimise traffic impacts, including temporary road works and/or implementation of traffic control measures;</p> <p>xv) pedestrian and traffic management methods;</p> <p>xvi) any potential impacts to general traffic, cyclists, pedestrians and bus services within the vicinity of the site from construction vehicles during the works;</p> <p>xvii) consideration of the cumulative construction traffic impacts of surrounding projects under construction, including those within the Hornsby Ku-ring-gai Hospital precinct. Existing CTPMPs for developments within or around the Site should be referenced in the CTPMP to ensure that the coordination of work activities is managed to minimise impacts on the surrounding road network; and</p> <p>xviii) traffic and transport impacts during construction and how these impacts will be mitigated for any associated traffic, pedestrian, cyclists, parking and public transport, which must include vehicle routes, number of trucks, hours of operation, access arrangements and traffic control measures for all demolition/ construction activities.</p> <p>The Contractor must submit a copy of the CTPMP to the Department and to the Council, prior to the commencement of works.</p> <p>B29 – The CTPMP must be implemented by the contractor for the duration of the construction works</p>		
3.16	A15, A16	<p>If necessary the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Secretary (e.g. after submission of a compliance report, or incident report, changes in the SSD conditions, or issue of a direction from the Secretary)</p> <p>Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review.</p>	<p>The Project Environmental Management Plan (PEMP) was reviewed during December 2019 (Rev.6) and a copy was sent to the DPIE on the 7 April 2020 (about 15 weeks after the review).</p> <p><b>OFI:</b> Proponent needs to ensure that every time the PEMP is reviewed a copy is submitted to the DPIE within six weeks of the review.</p> <p>Relevant changes in the SSD conditions, e.g. for the construction of a helipad were discussed with the Department.</p>	OFI-02
3.17	B2 C1	<p>Certified Plans are to be submitted to the Certifying Authority and the Department prior to commencement of each stage. A copy of the approved and certified plans, specifications and documents incorporating conditions of approval and</p>	<p>Certified Plans (as per Mod 2 and Mod 3) were submitted to CA as part of the CC4 (25/9/2019) sighted drawings listed in the CC4. Plans were sent to Department as part of Mod 3 and were approved on the 6/4/2020.</p> <p>Plans are available in site office and in Server (G: Drive).</p>	Y

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		certification must be kept onsite at all times and must be readily available.	<ul style="list-style-type: none"> <li>- 2 REFs</li> <li>- SSD</li> <li>- Certifications (e.g. Crown Cert) – G: Drive</li> <li>- Plans in Aconex.</li> </ul>	
3.18	Control of records (7.5)			
3.19	7.5.3	The Contractor has established and maintained necessary records to demonstrate conformity to the requirements of its EMS and the Standard, and the results achieved.	PEMP Sec. 4.12. <ul style="list-style-type: none"> <li>- Some are part of safety e.g. Inductions, Toolbox Talks (hard copies, kept in folder in Safety Advisor bookshelf)</li> <li>- Inspections, other environmental records – have a folder in shared drive e.g. complaints, waste diversion reports, meeting inspections</li> <li>- Reports – Aconex e.g. EIS, contamination, others within SSD, Drawings</li> <li>- Sighted Water Report Card 18/09/19 and 13/01/2020 (Turbidity test failed, so water was not discharged)</li> </ul> Specific records sighted as per further sections of this checklist.	Y
3.20	7.5.3	Procedures have been established for the identification, storage, protection, retrieval, retention and disposal of records.	Part of the Head Office Management System procedures – Document Control procedure. There is a document controller.	Y
<b>4.0</b>	<b>Operation</b>			
4.1	Operational controls (8.1)			
4.2	8.1	The Contractor has identified, and planned controls associated with the significant environmental aspects to ensure that operations are carried out under conditions that minimise harm to the environment.	All Aspects identified in the PEMP have Management Strategy and specific actions e.g. Noise controls: <ul style="list-style-type: none"> <li>- Noise monitoring in specific sensitive points</li> </ul> Sedimentation controls: <ul style="list-style-type: none"> <li>- Socks around drains</li> <li>- Silt fences</li> <li>- Washout drums.</li> <li>- Signage, etc.</li> </ul>	Y
4.3	Conditions of Development Consent – Before Commencement of Works			



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4.4	A6	No consent is granted for the demolition of the 'Palmerston' building.	Not part of SoW. Was a provision under the submission, not approved at this point.	-
4.5	A17	All plant and equipment used on site, or to monitor the performance of the development must be: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Plant and equipment are managed through 3D Safety app, sighted: - Logbook check completed on 23/6/2020 for EWP. - Sighted equipment use for noise monitoring - IC1592 Pro Sound Level Meter Calibrator, it was purchased on the 10 October 2019 from Instruments Choice. A new one will be purchasing this year in October. - Vibration is carried out directly by Acoustic Logic. - Dust is monitored onsite – sighted report from Prensa re. silica and respirable dust assessment 16 Sep 2019. Attached to the report there is the calibration certificates for the air-met scientific equipment – TSI Dusttrak 29/7/2019. - Asbestos air monitoring done by EHO Consulting during the demolition, sighted 15/5/2020 and 20/4/2020.	Y
4.6	A19, EPA Reg. Cl 98A, C23	Prescribed conditions – <b>Signage:</b> 2) A sign must be erected in a prominent position on any site on which building work, subdivision work or demolition work is being carried out: (a) showing the name, address and telephone number of the principal certifying authority for the work; (b) showing the name of the principal contractor (if any) for any building work and a telephone number on which that person may be contacted outside working hours; (c) stating that unauthorised entry to the work site is prohibited. Site Notice – to include certifying authority, structural engineer, the approved hours of work.	Signage sighted during site walk complies with this condition. Authorised hours of work are posted in a different site sign. Previous OFI now closed. Resident complaint due to work being carried out on Sunday 5/4. Resident was notified that planning regulations due to Covid-19 changed the week prior. This order allows construction work to proceed on Sundays.	
4.7	B3, B4	<b>Reflectivity, Outdoor lighting</b>	Certifier has provided all the architectural drawings including exterior finishing schedule. Sighted:	Y

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		The building materials used on the facades of the structure and the all outdoor lighting must comply with requirements of B3 and B4.	<ul style="list-style-type: none"> <li>- Certificate of Design for reflectivity of 7/09/18 by Bonacci Group.</li> <li>- Electrical Design Cert. Wood &amp; Grieve Eng. 15/8/18</li> </ul> Crown Certificate 11/10/2018 items 11, 12, 6, 17	
4.8	B5-B8	<p>Hazards – design of <b>oxygen supply</b></p> <p>The Contractor has ensured that:</p> <p><b>B5</b> The design and operation of the hospital's oxygen supply system (including the use of the liquid oxygen bulk storage tanks, any oxygen cylinders connected to the oxygen supply system and any temporary oxygen supply tanks) be in accordance with AS 1894 'The storage and handling of non-flammable cryogenic and refrigerated liquids' (AS 1894).</p> <p><b>B6</b> All control measures or safeguards described in the Preliminary Hazard Analysis (PHA, 9 February 2018) will be implemented.</p> <p><b>B7</b> As necessary and in accordance with AS 1894, the hospital's <b>Emergency Plan</b> and emergency procedures have been updated to include emergency situations involving the hospital's oxygen supply system, as described in the PHA (9 February 2018).</p> <p><b>B8</b> If temporary oxygen supply tanks are to be installed prior to demolition of existing liquid oxygen bulk storage tanks for the purpose of hospital oxygen supply prior to commissioning of new tanks, the design and operation of these temporary tanks must be verified with AS 1894 and/or other relevant Australian Standards.</p>	<p>HealthShare has coordinated the replacement of the oxygen tank. Logistics were coordinated with Watpac, as access had to be given through the worksite.</p> <p>The protection shed was lowered after the tank was replaced.</p> <p>There is signage indicating a minimum exclusion zone for hot works and clear access to the tanks at all times (in case access is required).</p> <p>Communications are in place when refilling.</p> <p>The Hospital presented their current emergency procedures, which refer to the old oxygen tank. The Project Manager has asked for them to be updated to reflect any changes with the new tank, e.g. provider is now Coregas.</p> <p>The emergency response procedure from LHD has been updated in section 6.2 'Medical Gases Supply – Engineering Response' to include the liquid oxygen and nitrous oxide. Procedure was approved 17/6/2018.</p>	Y
4.9	B10	<p>The Contractor has submitted Plans demonstrating compliance with the following requirements for <b>bicycle parking</b>, to the satisfaction of the Certifying Authority:</p> <p>a) provision of a minimum of 18 bicycle parking spaces;</p> <p>b) layout, design and security to comply with all applicable minimum requirements of AS 2890.3:2015 Parking facilities -</p>	<p>The initial design and architectural drawings have been submitted for certification. Part of Crown Certificate No.3. Final design is still in progress, as part of landscaping.</p> <p>Note: Construction of the bicycle parking will become relevant at the very end of the project.</p>	Y

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		Bicycle parking, and be located in secure, convenient and accessible areas close to the main entries, incorporating adequate lighting and opportunities for passive surveillance; and  c) provision of end-of-trip facilities for staff including showers, change room and lockers.		
4.10	B12	<b>Pre-Construction dilapidation reports</b>  Qualified structural engineer to prepare a Pre-Construction Dilapidation Report. Report submitted to the satisfaction of the Certifying Authority & copy to Council.	Email was sent on 19/09/2018 to Planning and Council with dilapidation reports. - Presented 4 reports: - Derby – Watpac - Star and Hope – Structural Engineer (Cardno) - Cottage 93 – Watpac - Little Learning School – Structural Eng. 04/09/18 Photographic report / condition of building  A new dilapidation report by Cardno for the new access road (council access) was done 24/01/2020.	Y
4.11	B18	<b>Public Footpath</b>  The existing concrete footpath along the boundary of the site is to be reinstated where impacted by the proposed works to relevant Council specifications and standards	Not Triggered. Footpath not affected at the moment under this SSD.  There has been an agreement with Council that they will reinstate the footpath after all the construction is completed (late 2021). Sighted email to Hornsby Council 29/11/19 from Nick Limbrey with summary of agreement – Note.	NA
4.12	B19	<b>Stormwater and Drainage Works</b>  Designed in accordance with Council's relevant specifications and standards and other specific requirements. Water treatment system designed as per Council requirements	Crown Certificate – Hydraulic outside fence – covered by another works conditions (REF determination – approval 004/2018 – 04/04/2018) – Not relevant to this SSD.  For internal stormwater drainage, the design would be approved as part of Crown Certs 1, 2.	Y
4.13	B20	<b>On-site Stormwater detention and Water Quality</b>  An on-site stormwater detention system must be designed by a chartered civil engineer and constructed in accordance with the following requirements: a) the developing area of the site shall ensure its 5-year average recurrence interval (ARI) runoff reduced to the pre-development	Civil Design Certificate (Crown Certificate, Item 4).  The onsite stormwater detention system will be done in Milestone 4 (Sep 2020 to June 2021).	Y

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Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<p>site cover rate. The volume of the onsite detention system shall ensure its capable of detaining the 20-year ARI post-development site cover storm;</p> <p>b) the water quality treatment system shall be designed and constructed to provide water quality outcomes as per Council's HDCP2013 Section 1 C.1.2.i requirements;</p> <p>c) have a surcharge/inspection grate located directly above the outlet;</p> <p>d) discharge from the detention system must be controlled via 1 metre length of pipe, not less than 50 millimetres diameter or via a stainless plate with sharply drilled orifice bolted over the face of the outlet discharging into a larger diameter pipe capable of carrying the design flow to an approved Council system;</p> <p>e) where above ground and the average depth is greater than 0.3 metres, a 'pool type' safety fence and warning signs must be installed; and</p> <p>f) not be constructed in a location that would impact upon the visual or recreational amenity of residents.</p>		
4.14	B21	<p><b>Road Works</b></p> <p>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 any necessary permits and approvals from the relevant road authority, prior to the commencement of road or pavement construction works.</p>	<p>There were some works on the Derby Road (from Dec 2019 to Feb 2020) to connect stormwater to the sewer. Council reinstated some footpaths and will upgrade the road in August 2020. Sighted site inspection 17/03/2020 with Watpac and Council.</p> <p>Road reinstatement as part of the REF (see checklist item 4.12).</p>	Y
4.15	B32, B33	<p><b>Utility Services</b></p> <p>Prior to the commencement of construction work the Contractor is to negotiate (as necessary) with the utility authorities (e.g. Ausgrid and Telcos) in connection with the relocation and/or adjustment of the services affected by the construction of the building structure.</p>	<p>Has communicated with Telcos, Ausgrid about low power lines.</p> <p>A new substation is being built. Ausgrid has come to check works progress. Sighted Chamber Substation – Civil Building Handover Certificate 21/02/2020.</p> <p>Correspondence with Ausgrid indicates that substation will be energised on the 13/07/2020 – sighted network access request No. 58506-T1 from Ausgrid.</p>	Y

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		Prior to the commencement of above-ground works written advice must be obtained from the electricity supply authority, an approved telco carrier and an approved gas carrier (as relevant) stating that satisfactory arrangements have been made to ensure provision of adequate services	Sydney Water has been contacted, sighted copy of the notice of requirements 24/03/2020 – still in progress. Gas is with the existing Hospital.	
4.16	B34	<b>External Walls and Cladding</b> The external walls of all buildings, including additions to existing buildings, must comply with the relevant requirements of the NCC	Final Design has been submitted. Sighted various Certificates for Alcadex, Deco, Finesse, Terracade, etc. Will use composite, non-combustible panels, glass, aluminium.	Y
4.17	B42  B45	<b>Tree Protection</b> The tree protection measures outlined in the <i>Arboricultural Development Assessment Report</i> , prepared by Moore Trees, dated October 2017, are to be implemented and maintained. Certification from the arborist required.	Have a report from Moore Trees – provided a Tree Protection Plan There are trees to be removed as part of Milestone 3 (sighted during site visit), approved by Council. Retained trees are not near the construction site (map sighted from the Arborist Report Oct. 2017). Sighted Aconex correspondence of 13/9/18 from Watpac to BM+G with submission of package for Crown Certificate 2, which included Arborist certification. Also sighted CC2 Item 16	Y
4.18	B43	A project arborist with AQF Level 5 qualifications must be appointed to provide monitoring and certification throughout the construction period.	Moore Trees is the project arborist	Y
4.19	B44, C32	Tree protection fencing for the trees to be retained must be erected around trees to be retained at a minimum distance based on the trees structural root zone  C32. Building materials and Site Waste  The filling or stockpiling of building materials, the parking of vehicles or plant, the disposal of cement slurry, waste water or other contaminants must be located outside the tree protection zones as prescribed in the conditions of this consent.	Not Triggered. Item may not become relevant (as per item 4.17) Two trees have been protected – sighted during site inspection. C32 – tree protection zones are outside if the site compound.	NA
4.20	B46	Ecologically sustainable development – details of design measures to be submitted, equivalent to Green Star Health Care 4-star rating	Steensen Varming (consultant) Energy Analysis Report dated 21/02/2018 has options regarding façade, ventilation, mechanical (design stage).	Y

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			Presented Design Certificate – BCA 2016 Section J from RENYi Australian Engineering Consultants certifying that the project is design with relevant Ecological Sustainable Design (ESD) standards including: Energy efficiency; external glazing and shading; artificial lighting; facility to monitor energy use, etc. Reference is made to RENYi BCA JV3 Verification Assessment Report Rev. A dated 12/7/2018.	
4.21		Conditions of Development Consent – During Construction		
4.22	C2, C3	<b>Construction Hours</b> Compliance with requirements for construction hours. Notification of any activities outside of these hours must be given to affected residents before undertaking the activities or as soon as is practical afterwards. Compliance with hours for noisy works (rock breaking, hammering, etc.)	7am – 6pm weekdays – usually end at 4pm 8am – 1pm Saturday No work on Sundays or Public Holidays. No extended hours are required for now. Planning regulations due to Covid-19 changed last week of March 2020 allowing construction work to proceed on Sundays. Works were carried out on Sunday 5/4/2020 (outside of normal hours) for façade and internal fit-out works. There was a complaint in relation to the active concrete pump at 7pm on Tuesday 7/4/2020.	Y
4.23	B14	<b>Construction Noise Management</b> Contractor must incorporate all relevant noise mitigation recommendations in the letter <i>Hornsby Ku-ring-gai Hospital Stage 2 Redevelopment - Response to Planning NSW Queries</i> prepared by Acoustic Logic, dated 26 April 2018, in the detailed design drawings and submit for the approval of the Certifying Authority.	Some design elements for final building are included in Crown Certificates, e.g. generators insulation. – done. Crown Cert for Noise mitigation recommendations included in detail design drawings & sent for approval by the Cert. Authority. Noise management during construction is as per the CNVMP. Contractor follows the Plan which covers more detail than the Acoustic Logic report dated 24/6/2018.	Y
4.24	C4	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 B25.	Controls continue to be maintained as per Acoustic Logic Report: <ul style="list-style-type: none"> <li>- Vehicles and machinery on site had flashing lights, some with squawkers (avoid use of reverse beep where possible).</li> <li>- Bored piles (rather than driven piles) – still in progress in Milestone 3</li> <li>- Use of plywood panels</li> </ul>	Y

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			<p>Noise monitoring readings continue in place. Checked during weekly environmental inspections at the nominated monitoring points. Sighted results during inspection on the 10 February 2020, Derby Road entry (62.6dB) and Palmerston Rd (69.1dB) both within the noise limits. Inspection 24 April 2020 indicates 67.3dB at Palmerston Rd and 11/6/2020 75.3dB due to trucks coming in and out for backfilling taking the reading for 2 minutes.</p> <p>There are not very noisy works at the moment apart from Demo.</p>	
4.25	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.	This is generally in accordance with the Noise and Vibration Plan from Acoustic Logic. This is associated with checklist item 4.31.	Y
4.26	C6	The Contractor 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.	<p>There is a specific area for construction vehicles to park to bring materials or load with waste. Vehicles only scheduled during working hours.</p> <p>Watpac has monitored the noise adjacent to Palmerston Road when conducting concrete pouring of HKH2. Email sent to HI about the noise complaint 1/5/2020 showing noise reading 69.1dB.</p> <p>Note: Sometimes workers arrive before 7am to get ready – there is a shuttle bus from 6am – 5pm taking them to the train, but this is generally is not an issue.</p>	Y
4.27	C7	The Contractor must schedule intra-day 'respite periods' for construction activities identified in the Interim Construction Noise Guideline	<p>Some exceedances are expected – e.g. vibration during pouring – in these cases has communication with the hospital and/or other receivers.</p> <p>Respite taken during staff breaks (two breaks in the day, morning tea and lunch), but would consider others per communications with the Hospital. Currently no noise/ respite periods required – no noisy works.</p> <p>One noise complaint was received regarding active concrete pump at 7pm on Tuesday 7/4. Resident states the noise level reached 62dBA without traffic. Meeting held with resident on 5/04/20. Watpac have been monitoring the noise adjacent to Palmerston Road during the final five pours of HKH2.</p>	Y

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4.28	C8	Wherever practical, and where sensitive receivers may be affected, piling activities are completed using bored piles	Done, as per checklist item 4.24. Piling works are progressing, about 20% of the work is completed to be finished on the second week of July 2020.	Y
4.29	C9	The Contractor 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.	Minimise use of reversing in vehicles – vehicles had squawkers. Have a regime for maintenance of equipment – records kept in hard copy in safety folder at the site office.	Y
4.30	C10	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	Noise monitoring devices in place, used in nominated locations. 75 – 80 dB(A) as per Noise & Vibration Management Plan, no more than 15min. One noise complaint was received regarding active concrete pump at 7pm on Tuesday 7/4. Address by meeting resident and ongoing monitoring during the pours. Presented map with sensitive receivers and showing noise monitoring locations. Evidence of noise monitoring noted as part of environmental inspections.	Y
4.31	C11	<b>Vibration Criteria</b> Vibration caused by construction works to meet the established limitations.	Criteria to work to: 1mm/s. Current vibration works are: piling	Y
4.32	C14	<b>Waste</b> All waste generated during construction must be assessed, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014)	Sighted Waste Report as part of the monthly PCG report, e.g. waste data from Oct 2019 by Grass Hopper - 94% recycling for the month. Report for March 2020 91% recycled. Sighted EPA Licenses for: <ul style="list-style-type: none"> <li>- Cleanaway Co Pty Ltd, license No. 12628 – 4 January</li> <li>- Dial-A-Dump (EC) Pty Ltd, license No. 13426 – 2 March</li> <li>- Kimbriki Environmental Enterprises Pty Ltd, license No. 13091 – 30 June</li> </ul>	Y
4.33	B17	<b>Storage and Handling of Waste (end product)</b> 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 site.	Loading dock is the area being used for the waste storage and Grass Hopper pick up the bins every 2 days. Waste gets segregated on site, sighted inspection report 21/5/19 showing the process for segregation at Easter Creek. Truck routes with EPL number sighted from Bingo, Auburn EPL No. 10935 and KLF Recycling, Asquith EPL No. 20582. Tipping and Greenstar report 17/08/2028. Acceptance letter for Genesis Landfill & recycle centre 9/3/2018.	Y

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			There will be waste storage facilities as per the "Modification of Development Consent" dated 8 <sup>th</sup> May 2019, where separate storage and collection of organics/food waste is no longer required, this is part of the Star Building.	
4.34	C15	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.	Trucks loads are covered coming out of a mast. Grass Hopper covers material, except steel bins. Drivers are liable if the trucks don't get covered. Truck routes with EPL number sighted from Bingo, Auburn EPL No. 10935 and KLF Recycling, Asquith EPL No. 20582. Dust suppression being used for demolition. Currently for Milestone 3 there is normal watering for dust suppression and street sweeper on the roads.	Y
4.35	C16	The Contractor must ensure that concrete waste and rinse water are not disposed of on the Subject Site and are prevented from entering any natural or artificial watercourse.	Concrete washout will be in place within building, as necessary.	Y
4.36	C34	<b>Excavated Material</b> All excavated material removed from the site must be classified by a suitably qualified person in accordance with the Department of Environment, Climate Change and Water NSW Waste Classification Guidelines prior to disposal to an approved waste management facility.	There was no excavated material as part of the current works onsite. Asbestos material as a result of demo was removed. Sighted asbestos assessment completed by Douglas Partners 28/9/19 and Asbestos Removal Control Plan dated 25/11/19 (Issue 1) by ASP Australia.	Y
4.37	C36	<b>Trade Waste</b> Liquid trade waste generated on the site must be discharged in accordance with a trade waste agreement with Sydney Water and by a licensed liquid trade waste contractor.	Sighted Water Meter Report Card for control of water quality, last one done on the 17/3/2020. Water turbidity and pH were within limits. Ok to pumped out to stormwater after verification of measurements. <b>OFI:</b> It was suggested that the Water Meter Report Card includes the location where the water is being taken from.	<b>OFI-03</b>
4.38	C21	All construction vehicles associated with the proposed development are to be contained on site, unless otherwise approved through the approval for a construction zone on the Council roadway	Approval letter from Hornsby Shire Council for the 'Work Zone' 5/6/18 – applied on 29/05/18. Ref No. F2004/09773. Vehicles load and unload within the site, the works zone is more for vehicles waiting, as necessary.	Y
4.39	C22	Demolition	Demolition works (structural) started as part Milestone 3 in April 2020, demolition of building 2.	NA

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		<p>To protect the surrounding environment, all demolition work must be carried out in accordance with "Australian Standard 2601-2001 - The Demolition of Structures" and the following requirements:</p> <ul style="list-style-type: none"> <li>- Demolition material must be disposed of to an authorised recycling and/or waste disposal site and/or in accordance with an approved waste management plan</li> <li>- Any asbestos to be removed by a licenced contractor</li> <li>- Meet signage requirements</li> </ul>	<p>Waste analysis and classification report by Geotesta by Delta Group 3/3/2020 No. NE596.3. Asbestos clearance inspection by EHO Consulting completed on the 6/3/2020.</p> <p>Certificate of analysis done by Douglas Partners 25/3/2020.</p>	
4.40	B11, C19	<p><b>Erosion and Sediment Control</b></p> <p>Soil erosion and sediment control measures must be designed in accordance with Blue Book &amp; approved by certifying authority.</p> <p>Control measures to be effectively implemented and maintained for the duration of the works.</p>	<p><b>B11.</b> TTW – civil consultants – provided a Sediment Control Plan – mostly from Blue Book – CIV-DNG-00-902 Rev. A 28/06/2018 issued for construction. Erosion and Sediment Control Plan has been reviewed 21/08/2019 and the new revision will be issued 26/06/2020.</p> <p><b>C19.</b> Controls observed during site visit, e.g. sand bags around drains and slit fence.</p>	Y
4.41	C20	<p><b>Disposal of Seepage and Stormwater</b></p> <p>Not to be pumped to the street stormwater system unless approved</p>	<p>Wastewater is tested. Sighted Water Meter Report Card for control of water quality, reading on 18/9/19, turbidity, pH within limits. Ok to discharge.</p> <p>From heavy rains, the stormwater runoff was collected within the site.</p>	Y
4.42	C12, C13	<p><b>Contamination</b></p> <p>Remediation works at the site are to be undertaken in accordance with the recommendations and findings of the Remediation Action Plan prepared by Douglas Partners and dated May 2018.</p> <p><b>C13</b> Should any new information come to light during construction works which has the potential to alter previous conclusions about contamination, the Certifying Authority must be immediately notified, and works must cease in the vicinity of the suspected contamination. The Certifying Authority will determine whether further investigation, or the</p>	<p>Demolition of Building 2 (structural) started in April 2020. Remediation works records sighted as part of the asbestos records.</p> <p>Sighted Remediation Action Plan 18 May 2020 (Rev.2 - amended) from Douglas Partners, to include Building 2 for the sub-floor.</p>	Y

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		need for remediation, is required before construction works can recommence		
4.43	C17	<b>Handling of Asbestos</b> The Applicant is to consult with SafeWork NSW concerning the handling of any asbestos waste that may be encountered during construction	Remediation Action Plan 18 May 2020 (Rev.2) from Douglas Partners, to include Building 2 for the sub-floor. Asbestos Removal Control Plan by ASP Australia dated 25 November 2019 was sighted. ASP is the licenced removal contractor. Sighted Aconex communication of 6/12/19. Asbestos clearance inspection by EHO Consulting completed on the 6/3/2020. Certificate of analysis done by Douglas Partners 25/3/2020.	Y
4.44	C18	<b>Unexpected Finds - Non-Aboriginal Heritage</b> Procedure in place, cease works, contact OEH, assess, take action.	Not Triggered. No cultural / non-Aboriginal Heritage finds. Mentioned statues of lions, which have been saved and will be relocated.	NA
4.45	C25, C26	<b>Hoarding/Fencing Requirements</b> A temporary hoarding, fence or awning must be erected between the work site and adjoining lands before the works begin and must be kept in place until after the completion of the works; Other requirements: no advertising material, no graffiti. Permit for hoardings over council footways or road reserve.	Have a mixture of solid hoardings and fencing in the perimeter of the site. Condition monitored daily. No issues identified during the site walk. Some fencing changes in accordance with the site layout changes, modifications were made as part of the possession of Building 2 – old Medical Imaging.	Y
4.46	C33	<b>Council Property</b> – no building materials, waste, machinery or related matter is to be stored on the road or footpath	Site is well enclosed; no materials present on footpath as observed during site walk.	Y
4.47	C35	Storage of <b>Flammable and Combustible Goods</b> in bunded area	During the site walk 2 gas tanks were sighted in the helipad construction area, they were locked up and worker next to them. Sighted Hazardous Chemicals register S08-04-10.01 with oxygen compressed from Sparten Steel expiry date 27/06/2022. Other flammable liquids were bunded and diesel containers in place. Spill kits available on site. <b>Note:</b> Watpac to ensure that spill kits are accessible at all times with no obstructions around them.	Y  <b>Note</b>

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4.48	C37	<p><b>Traffic Control Compliance</b></p> <p>The development must be carried out in accordance with the Construction Traffic Management Plan prepared under this consent.</p>	<p>Permanent traffic controllers were sighted at the site entry as per TMP. TMP prepared by RTMS (staff blue card).</p> <p>Will submit plans as required, e.g. Traffic control Plans have been approved for the new access on Palmerston Road. RTMS is the Traffic Management Contractor. Sighted email correspondence between RTMS and Council (10/12/19 &amp; email trail below) regarding permit approval. Sighted Hornsby Shire Council Permit Ref. CLOSE/17/2019 of 9 December 2019.</p>	Y
4.49	Emergency preparedness and response (8.2)			
4.50	8.2; B7	<p>The Contractor has established procedures to:</p> <ul style="list-style-type: none"> <li>- identify potential emergency situations and potential accidents that can have an impact(s) on the environment</li> <li>- determine how it will respond to them</li> </ul>	<p>Have an Emergency Response Plan Rev.6 of 13/11/19 signed by the PM. Includes different scenarios of safety and environmental emergencies. Have flowcharts for:</p> <ul style="list-style-type: none"> <li>- Notifications; - Injuries; - Evacuation; - Medical emergencies;</li> <li>- Fire</li> </ul>	Y
4.51	8.2	The emergency response procedures include measures to prevent or mitigate associated adverse environmental impacts.	As above	Y
4.52	8.2	Emergency preparedness and response procedures are periodically reviewed and revised, as necessary, in particular, after the occurrence of accidents or emergency situations. Emergency preparedness and response procedures are periodically tested, where practicable	The Emergency Plan is reviewed periodically, as the site layout changes. For Rev. 6 some roles were updated, and the Hospital St. evacuation plan was included. Has Emergency Contacts List in place.	Y
<b>5.0</b>	<b>Performance Evaluation (9.0)</b>			
5.1	Monitoring and measurement (9.1)			
5.2	9.1	Documented procedures have been established to monitor and measure on a regular basis the key characteristics of operations that can have significant environmental impacts.	Conduct weekly Environmental Inspections – have a folder with inspections e.g. sighted environment Inspection checklist dated 10/02/2020; includes photos of controls in place during the inspection. The report was revamped and reduced to 1 page.	Y
5.3	9.1.1	<p>The procedures include:</p> <ul style="list-style-type: none"> <li>- the documenting of information to monitor performance</li> <li>- effectiveness of applicable operational controls</li> </ul>	Monitoring is documented in the PEMP.	Y

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		- conformity with the organization's environmental objectives and targets	Effectiveness to be assessed when preparing Performance Report for Planning. Conformity with environmental objectives and targets assessed. Monthly reports, e.g. PCG for April or May? 2020 sighted.	
5.4	9.1.1	Monitoring and measuring equipment is calibrated, maintained and stored as necessary. Records or calibration are maintained	Noise monitor self-calibrates – gets a new device each year. No vibration monitors required for this period.	Y
5.5	A11	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 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, noncompliance notification and independent environmental auditing.	Environmental monitoring, e.g. Independent Environmental Audits (by AQUAS) – as per SSD Conditions B39, B40; Environmental inspections. Last internal audit carried out by Watpac on 18/06/19 by Quality Manager, no other audits so far.	Y
5.6	B35, B36	<b>Compliance Reporting</b> 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.	Report by Blackett and McGuire Goldsmith.	Y
5.7	B37, B38, C30	Construction Compliance Reports must be submitted to the Department at <a href="mailto:compliance@planning.nsw.gov.au">compliance@planning.nsw.gov.au</a> for information every six months from the date of 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 construction of the development, or such other timeframe as required by the Secretary. 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	Construction Compliance Report dated 1/02/2020 for August 2019 to February 2020 period has been submitted to the DPIE on 7/4/2020, sighted email dated 7/4/2020. Report was sent just few days outside of the timeframe requirement. Report includes: <ul style="list-style-type: none"> <li>- Compliance status summary in section 4;</li> <li>- Complaints in section 8;</li> <li>- Environmental Monitoring in section 3;</li> <li>- Authorities (SSD Approvals and Crown certificate) in section 2.5.1;</li> <li>- Non-compliances from independent environmental audits in section 5 and previous report actions in section 6;</li> <li>- Incidents section 7;</li> <li>- Appendices</li> </ul>	Y

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		<p>proposed strategies for reducing the recurrence of such complaints;</p> <p>c) details of any review of the CEMP and the Environmental Management Strategy and associated sub-plans as a result of construction carried out during the reporting period;</p> <p>d) a register of any modifications undertaken and their status;</p> <p>e) results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit;</p> <p>f) a summary of all incidents notified in accordance with this consent; and</p> <p>g) any other matter relating to compliance with the terms of this consent or requested by the Secretary.</p>		
5.8	B39, B40, B41	<p><b>Independent Environmental Audit</b></p> <p>No later than a month before the commencement of construction works or as agreed with the Secretary, a program of independent environmental audits must be prepared for the development in accordance with the latest version of ASINZS ISO 19011-2014: Guidelines for Auditing Management Systems (Standards Australia, 2014) and submitted to the Secretary for information.</p> <p>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.</p> <p>The environmental audit program prepared and submitted to the Secretary must be implemented and complied with for the duration of the development.</p> <p>&gt; 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:</p> <p>a. assesses the environmental performance of the development, and its effects on the surrounding environment including the community;</p>	<p>Environmental Audits conducted by AQUAS in September 2018, January, June and December 2019, as per the Audit Program submitted to the client.</p> <p>Presented confirmation of receipt of the August 2019 to February 2020 Construction Compliance Report by DPIE on the 7/4/2020, which included submission of the December 2020 Audit Report.</p> <p>Notification was sent to HI on 12/2/2020 with a copy of the audit report for Dec 2019.</p>	Y

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		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. > Within three months of commencing an Independent Environmental Audit, or as agreed with 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		
5.9	C27	At least 48 hours before commencement of construction until the completion of all works, the Contractor must make the following information and documents publicly available on its website: - statutory approvals - approved strategies, plans and programs - performance reporting & monitoring results - project status - complaints register Information must be kept up to date.	<a href="#">Information has been published to Infrastructure and NSLHD webpages.</a> <a href="#">HI website includes a copy of the Compliance report for Feb 2020; However, no monitoring results/records have been published.</a> <b>Previous Opportunity for Improvement (OFI-02):</b> Still in progress. Project team is working towards creating a register and put the results in the website.	<b>OFI</b> (Nov 2019) OFI-02
5.10	Internal Audit (9.2)			
5.11	9.2	The Contractor has ensured that internal audits of the EMS are conducted at planned intervals to determine: a. whether it conforms to planned arrangements for environmental management including the requirements of the Standard b. whether it has been properly implemented and is maintained	<a href="#">An internal audit was carried out by Watpac H.O. on 18/06/19</a>	Y
5.12	Management Review (9.3)			

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
5.13	9.3	Top management reviews the EMS at planned intervals to ensure its continuing suitability, adequacy and effectiveness. Reviews include assessing opportunities for improvement and the need for changes to the EMS, including the environmental policy and environmental objectives and targets.	Happens at a Head Office level. Evidence not available onsite	-
<b>6.0</b>	<b>Improvement (10.0)</b>			
6.1	Nonconformity, corrective and preventive action (10.2)			
6.2	10.2	Procedures are in place for: <ol style="list-style-type: none"> <li>identifying and correcting nonconformities and taking actions to mitigate their environmental impacts</li> <li>investigating nonconformities, determining their causes and taking actions in order to avoid their recurrence</li> <li>evaluating the need for actions to prevent nonconformities or avoid their occurrence</li> <li>recording the results of corrective and preventive actions taken</li> <li>reviewing the effectiveness of corrective and preventive actions</li> </ol>	Sighted Non-Conformance Register N206-FRM-003 Rev.01 (last one printed in May 2020). Register has actions for quality, safety environmental issues e.g. item WTPC-NCR-000023 refers to sedimentation controls requiring rectification, dated 8/7/19. Action closed out.  Last Non-conformance was raised on the 6/6/2020. NCs 11 and 12 have been closed.	Y
6.3	10.2	Any necessary changes arising from corrective and preventive actions are reflected in the EMS documentation.	None triggered by environmental NCRs. Reviews would be made as required.	NA
6.4	A12 A13 A14	The Department must be notified in writing to <a href="mailto:compliance@planning.nsw.gov.au">compliance@planning.nsw.gov.au</a> within seven days after the Applicant becomes aware of any non-compliance. The Certifying Authority must also notify the Department within seven days after they identify any non-compliance. 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.  A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.	Not Triggered. No non-compliances identified so far that need to be notified.	NA

Audit Compliance Codes: Y: Compliance achieved; N-Major: Major non-conformance; N-Minor: Minor non-conformance; OFI: Observation for Improvement

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
6.6		Complaints Management		
6.7	B30	<p>Complaints and enquiries procedure</p> <p>The following must be made available for community enquiries and complaints for the duration of construction:</p> <ul style="list-style-type: none"> <li>a) a toll-free 24-hour number for complaints and enquiries about the works;</li> <li>b) a postal address to which written complaints and enquires may be sent; and</li> <li>c) an email address to which electronic complaints and enquiries may be transmitted.</li> </ul>	<p>Have a Complaints Register.</p> <p>24-hour number and email address available in signage at worksite entrance.</p>	Y
6.8	B31	<p>A Complaints Management System must be implemented, including a Complaints Register to be maintained recording information about all complaints associated with the project, e.g.</p> <ul style="list-style-type: none"> <li>d) number of complaints received;</li> <li>e) number of people affected in relation to a complaint;</li> <li>f) nature of the complaint and means by which the complaint was addressed and whether resolution was reached, with or without mediation.</li> </ul>	<p>Sighted Complaints Register: 14 complaints recorded so far. Last on 7/4/2020 - complaint in relation to the active concrete pump at 7pm on Tuesday 7/4. Resident states the noise level reached 62dBA without traffic; a meeting was held with resident on the 15/04/20. Watpac have also agreed to monitor the noise adjacent to Palmerston Road when conducting the final five pours of HKH2. It is noted that the resident will be notified.</p> <p>All complaints have been closed out and available on website.</p>	Y
6.9		Incident Management		
6.10	A23, C28	<p>The Department must be notified in writing to <a href="mailto:compliance@planning.nsw.gov.au">compliance@planning.nsw.gov.au</a> 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.</p>	<p>Not Triggered. No notifiable environmental incidents have been reported.</p>	NA
6.11	A24	<p>a) A written incident notification must also be emailed to the Department at the following address: <a href="mailto:compliance@planning.nsw.gov.au">compliance@planning.nsw.gov.au</a> within seven days after the Applicant becomes aware of an incident.</p>	<p>As above.</p>	NA

Item	Part	Audit Criteria	Documentation Reference	Compliance Rating
		<p>Notification is required to be given under this condition even if the Applicant forms the view that an incident has not occurred.</p> <p>b) Written notification of an incident must:</p> <ul style="list-style-type: none"> <li>i) identify the development and application number;</li> <li>ii) provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);</li> <li>iii) identify how the incident was detected;</li> <li>iv) identify when the Applicant became aware of the incident;</li> <li>v) identify any actual or potential non-compliance with conditions of consent;</li> <li>vi) describe what immediate steps were taken in relation to the incident;</li> <li>vii) identify further action(s) that will be taken in relation to the incident; and</li> <li>viii) identify a project contact for further communication regarding the incident.</li> </ul>		
6.12	C29	<p>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 A 19.</p>	As above.	