

#### Construction



## **Introduction and Purpose**

The Environmental Management Sub Plan forms part of the Workplace's EHS Management Plan and focuses on specific environmental risks that have been identified at the project's location through the Environmental Assessment reports and project approvals or permits including:

- SSDA 10388 and 10389
- Environmental Impact Statement

The Environment Management Sub Plan is to be read in conjunction with the Workplace EHS Management Plan, Global Minimum Requirements, and Workplace Delivery Code.

### **Objectives**

The objectives of the Environmental Sub Plan are:

- To identify controls to manage project environmental impacts.
- To document and communicate environmental obligations and commitments, including legislative, approval and Client requirements.
- To achieve compliance with regulatory, legislative and SSDA approval requirements.

### **Project Description and Location**

The overarching project description and timeframe milestones are outlined in Part 1 of the Project EHS Management Plan.

The Liverpool Hospital is a Principal Group A1 tertiary referral hospital, managed by South Western Sydney Local Health District (SWSLHD). Liverpool Hospital currently has 713 inpatient beds and provides a wide range of tertiary and quaternary services. The redevelopment will increase the inpatient bed numbers to 900, as well as expanding tertiary and quaternary services.

Site establishment including office and compound setup, and the construction of access points and internal roadways.

- Demolition of Alex Grimson, Oncology and Pathology buildings.
- Construction of a new Integrated Services Buildings(ISB 2), including basement.
- Refurbishment of numerous areas within the existing Caroline Chisholm and Clinical Services Building of the hospital
- Construction of Campbell St shared Zone
- On Grade Car Park Works,
- External works

#### Construction



#### Stage 2 Integrated Services Building (ISB 2)

- Construction of a new 6 story Integrated Services Building (ISB) comprising of the following departments;
  - Basement: Workshops, Distribution Centre, Loading Dock, Storerooms and Plant
  - Ground: Education & Conference Centre, Retail, Cancer Clinics and Radiation Oncology
  - Level 1: Clinical Trials, Wellness Centre, Pre-Vocational Offices, Cancer Day Therapy and Educational Spaces
  - Level 2: Staff Health, Education / Library, Women's Ambulant Care, Pead's Consult Zone and MSCL
  - Level 3: Palliative Care IPU and Paediatric IPU
  - Level 4: Antenatal IPU, Education and Postnatal IPU
  - Level 5: Haematology IPU and Oncology IPU
  - Level 6: Plant

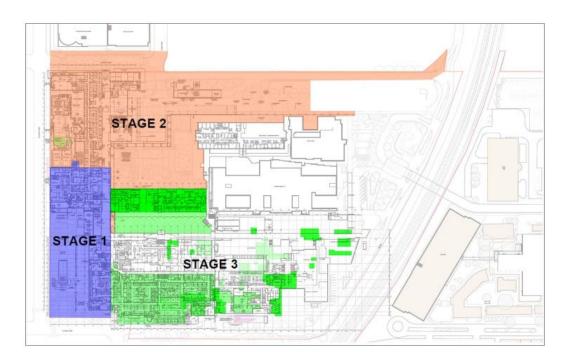
**Trees** – A total number of three high retention value trees were identified and should be retained and protected at Campbell / Forbes Street.

**Heritage** – The local street network identified as "Plan of Town" of Liverpool (early town centre street layout-hoddle 1827), Liverpool College (TAFE) site including blocks G & A, chimneystack, fence, gatehouses and archaeological features formally, Liverpool Hospital and Benevolent Asylum.

Hazardous building materials - Asbestos is known within the Alex Grimson building

**Noise and Vibration** – Existing hospital, Liverpool Girls & Boys High Schools, Tafe NSW Liverpool Campus, Private medical practices (Ingham Institute) and neighbouring residents.

**Air Quality** – Existing active operations of the remainder of Liverpool Hospital, 20m to existing residential and commercial properties located across Goulburn Street and Campbell Street, 50m to Liverpool Girls and Boys High Schools, 100m to Liverpool TAFE and general adjacent footpaths.



#### Construction



#### **Environmental Control Plan**

The Environment Control Plan (ECP) outlines the key environmental features, aspects and environmental management measures required on the project. The ECP can be found in Appendix A. This graphical plan(s) is a key tool for communication and review of project environmental constraints and control measures.

The ECP must be reviewed and updated to reflect significant site changes or project stages, and at a minimum every 6 months during the project EHS sub plan review.

## **Legislation and Other Requirements**

Relevant legislation and other requirements are outlined in Part 2 of the EHS Management Plan, additionally key legislation is detailed in the projects Impacts and Hazards Risk Assessment.

### **Compliance Obligations Register**

All relevant project delivery environmental requirements or commitments listed in the environmental assessment reports, project approvals, permits, licences or contractual conditions must be listed in the Compliance Obligations Register. The Compliance Obligations Register can be found in Appendix B.

Where a project wide obligations register is used to track compliance with environmental approval, contract and other conditions (including allocation of responsibility and compliance status), this may continue to be used in place of the Compliance Obligations Register.

### Roles and responsibilities

The key roles with Environment, Health and Safety responsibilities are outlined in the Workplace EHS Management Plan Part 1. A comprehensive Responsibilities, Accountabilities, Consultation, and Information (RACI) chart is in Appendix 1 of the Workplace EHS Management Plan Part 1.

## **Impacts and Hazard Risk Assessment**

Project environmental risks are identified and recorded in the projects Impacts and Hazard Risk Assessment in accordance with the Workplace EHS Management Plan Part 2 Section 7.1.

### Construction



## **Incident Management**

Lendlease's Incident Management approach is outlined in the Workplace's EHS Management Plan Part 2, Section 9.

The Environmental Impact Rating Matrix will be used to classify and triage the incident.

Incidents that need to be notified to an external authority are described in the <u>External Incident</u> Reporting Guide.

#### Construction



## **Monitoring and Review**

Lendlease's environmental monitoring and assurance activities are completed in accordance with Workplaces EHS Management Plan Part 2, Section 11.

## **Environmental Aspects**

Common Environmental Aspects typically encountered by projects are listed below.

The Environmental Aspects relevant to this project are identified in the Impacts and Hazards Risk Assessment (IHRA). The table below identifies the environmental aspects that require environmental management measures to be implemented by the project, and the reason for that requirement.

Environmental Aspect	Required (Y or N)	Reason
Acid Sulphate Soil	N	Acid sulphate soils have not been identified.
Air Quality	Υ	Sensitive receptors and working within a LIVE hospital environment
Asbestos and Hazardous Building Materials	Υ	Covered by Asbestos and Hazardous Building Materials Management Sub Plan
Biodiversity and Natural Habitat	Y	Tree protection zones will be in place
Contamination	Y	Management of contamination will be required
Chemical and Fuel Use	Υ	Covered by Hazardous Chemicals (Hazardous Products, Materials Substances or Dangerous Goods) Management Sub Plan
Heritage and Archaeology	Y	Existing heritage items have been identified
Noise and Vibration	Υ	Sensitive receptors and working within a LIVE hospital environment
Stormwater, Erosion and Sedimentation	Y	Management of ERSED controls will be required
Waste	Y	Mandatory with all EHS MP
Water Resources	N	N/A

#### Construction



## **Environmental Management Measures**

Detailed below are the environmental management activities, mitigation, control, and contingency measures to be implemented on the project.

#### **Waste**

Waste generated by workplace activities has potential to cause environmental pollution if not managed appropriately, and waste disposal is tightly regulated under State and Territory regulations, with specific waste classification, permitting, recording and transport requirements. In addition planning for waste minimisation and diversion to reuse or recycling is an integral part of achieving sustainability targets and reducing construction impacts on the environment.

#### **Risk Exposure**

The main waste streams identified for the project include:

Stage	Expected waste types	Estimate of expected waste qty	Estimate of service re number, size)	equirements (type,
			Skips	Bins
Office	Paper	2 bins (security/non)	Nil	240L
	Comingles recyclables ink cartridges	1 bin		Box
	General food and waste general	2 bins		240L
Site Accommodation	Comingles recyclables ink cartridges	6 bins	Nil	240L
	General food and waste general	6 bins		240L
Demolition	Concrete	7000m3	40	Nil All
	Bricks/Blocks	500m3	20	
	Metal/Steel	20m3	9	
	Excavated Materials	100m3	10	
Piling	Concrete	100m3		
	Steel	20t		
Earthworks	Spoil	12000m3		
Structure	Concrete	100t	10 x 13m3	
	Steel			
Façade	Timber Pallets		4 x 13m3	
	Soft Plastic			
Fit out	Cardboard boxes		10 x 13m3	12 x 1.5m3
	Pallets Timber packers		30 x 17m3	
	Soft plastic			
	Strapping			
	Styrofoam			

#### Construction



	Plasterboard		
External working incl landscaping	General Waste	2 x 10m3	
Final clean up	Mixed Recyclables	8 x 13m3	

Workplace activities with the greatest potential generate significant waste quantities are:

- Site establishment
- Demolition of the Alex Grimson building, Oncology and Pathology buildings.
- Excavation of materials, backfilling and providing clean fill
- Installation of continuous flight auguring (CFA) piling
- Construction of new Integrated Services Building ISB 2, including basement
- Refurbishment of numerous areas within the existing Caroline Chisholm and Clinical Services Building of the Hospital
- Construction of Campbell St shared Zone
- On Grade Car Park Works
- External works

### Construction



#### **Management Controls**

Control	When (or how often)	Who is Responsible
Dispose of waste using licensed contractors at appropriately licensed/approved facilities	At all times	LLC/Contractor
2.Based on the identification of key construction wastes, identify skip requirements for on-site separation, collection (at ground level and within floor areas), off-site recycling and disposal for each stage of construction	Prior to works commencing	LLC/Contractor
3.Identify major suppliers and identify opportunities to minimise or eliminate packaging and procure recycled content products.	Prior to and during construction	LLC/Contractor
4.Major subcontractors to submit details of waste generated, waste minimisation, take back, reuse and recycling opportunities.	During Construction	LLC/Contractor
5.Separate/sort waste materials on site to divert waste from landfill and maximise recovery.	At all times	LLC/Contractor
6.Maintain waste handling and waste storage areas (solid and liquid wastes) in good condition to prevent pollution	At all times	LLC/Contractor
7.Encourage good site 'housekeeping' in material handling and storage areas to prevent damage and the loss of materials due to physical impact and weather events.	At all times	LLC/Contractor
8.All waste generated during construction must be assessed, classified, and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014).	At all times	LLC/Contractor
9. Concrete rinse water must be done so in a designated area and prevention measures in place to ensure it does not enter natural/artificial watercourse. Concrete wash out areas to be provided and maintained.	At all times	LLC/Contractor

Monitoring and Reporting Record any required waste monitoring/ inspections or reports (if none required enter NIL only)	Where	<b>\</b>	Who is Responsible	Records
Monthly reporting of waste and recycling data	N/A	Monthly	Contractors/LLC	Dockets

#### References:

• Demolition and Construction Waste Management Plan - Waste Audit Jan 2020

#### Local:

- Liverpool LEP 2008
- Site Sustainability Standards (Greenbook)
- Scope of Works for Waste Services (Source)
- Lendlease Group Procurement Package for Waste

### Construction



### **Document Version Control**

Date	Document Issue	Purpose and Summary of Amendments	Reviewed by	Approved by
31/01/202 4	1	New plan developed to amalgamate the following individual EHS Management Sub Plans:	James Cannon	Andrew Hereth
		<ul> <li>Acid Sulphate Soils</li> <li>Air Quality</li> <li>Conservation and Habitat</li> <li>Contamination</li> <li>Heritage and Archaeological Management</li> <li>Stormwater, Erosion and Sedimentation</li> <li>Waste Management</li> <li>Water Resource</li> </ul>		

Workplace Revision Status					
Date	Project Revision (in numbers)	Purpose and Summary of Amendments	Reviewed by	Approved by	
31/05/2021	DRAFT	New template. LHAP site specific information added	Daisy Badel	Michael Niedzwiecki	
07/07/2021	Rev 1	Draft approved. Review Only	Lilly Cauchi	Michael Niedzwiecki	
05/08/2021	Rev 2	Plan reviewed as per John Staff comments	Lilly Cauchi	Daniel Puljic	
27/10/2021	Rev 3	Updated waste volume estimates	Mathew Hill	Daniel Puljic	
17/11/2021	Rev 4	Review only no changes	Ian Sheils	Daniel Puljic	
09/12/2021	Rev 5	Update to SSDA requirements and updated EMD	Ian Sheils	Daniel Puljic	
02/03/2022	Rev 6	Updated key waste streams and SSDA B14 made reference to table. Added waste facility register	Ian Sheils	Daniel Puljic	
02-06-2022	Rev 7	Review only no changes	Dylan Stewart	Daniel Puljic	
02-09-2022	Rev 8	Review only no changes	Dylan Stewart	Daniel Puljic	
02/12/2022	Rev 9	Review only no changes	Dylan Stewart	Daniel Puljic	

## Construction



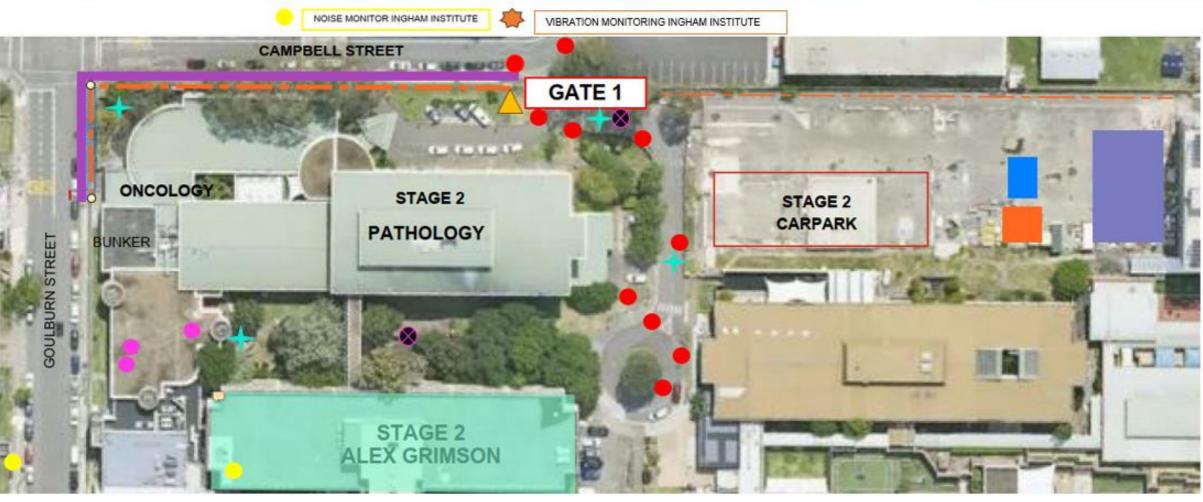
05/05/2023	Rev 10	General review & references to LLB removed & LLC inserted, updated EMD	Nigel Rose	Daniel Puljic
07/11/2023	Rev 11	General review & updated EMD	Nigel Rose	Daniel Puljic
22/4/24	Rev 12	Review only, no changes	Daisy Marks	Daniel Puljic
24/07/2024	Rev 13	Page 17 changes to key contacts on EMD	Daisy Marks	Lovro Smoljo
28/03/2025	Rev 14	Update for Stage 2 Works	Daisy Marks	Sebastian Bartholomeusz

## **Environmental Management Sub Plan**

Construction

## **Appendix A – Environmental Control Plan**





VEV EN		ITAL	CCLIEC
NET EN	/IRONMEN	NIAL	33UE3

- Unexpected finds
- Noise to general public / Hospital .
- Water run off
- Sediment run off

#### SENSITIVE RECEPTORS

- Local Residents in Goulburn & Campbell Streets
- Alex Grimson Building
- Caroline Chisholm Building
- Existing Clinical Services Building
- Liverpool TAFE College Street Campus
- Ingham Institute

#### **KEY CONTROL MEASURES**

- Geofabric under pit grates to stormwater inlets to filter water
- Radiation monitoring of cancer bunker
- Shaker grid located inside of gates 2 & 3
- High pressure washer to clean tyres in inclement weather

#### Blue metal to cap exposed soil

#### **KEY CONTACTS**

Construction Manager Sebastian Bartholomeusz 0437 635 696

Senior Site Manager Damien Smith 0437 559 361

Senior Site Supervisor James Hall 0429 801 618

Senior EHS Coordinator Daisy Marks 0409 845 126

**Emergency Services** 

Icon	Description
	Noise Monitor
•	Stormwater Inlet
	Radiation Monitor
_	Spill Kit
	HS / DG Storage
	Rubbish Skip
	LL Storage
_	B-Class Hoarding
	Sediment Controls
+	Air Monitoring
8	Dust Monitoring
	Vibration Monitoring





## **Appendix B – Compliance Obligations Register**

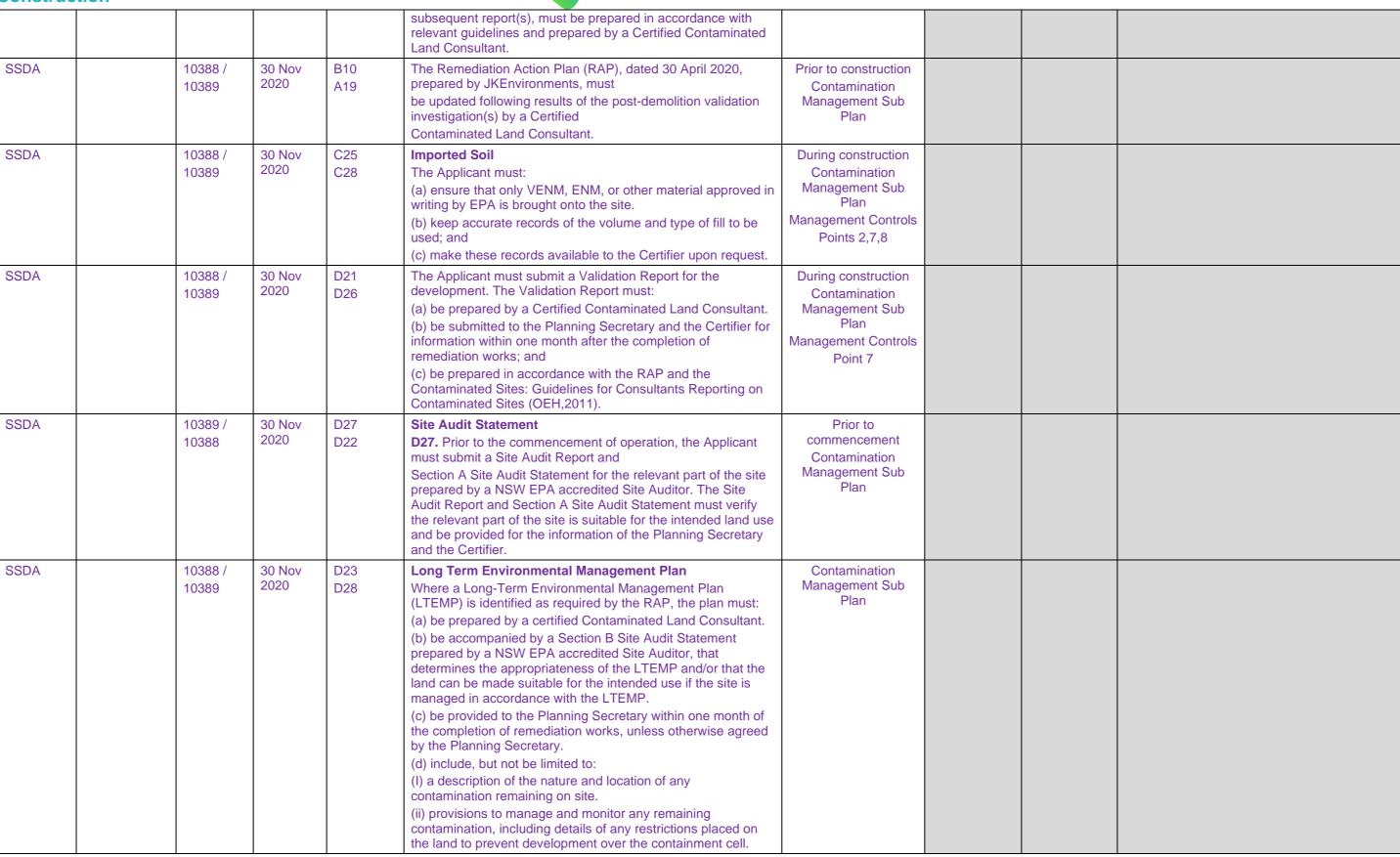
## **Project - LHAP**

	Source Document			Compliance Obligation	Implementa	tion	Compliance		
Obligation Source	Title/Plan	Reference	Revision	Condition Reference	Condition	Where implemented	Status	Date	Evidence
SSDA	CEMP	10389 / 10388	30 Nov 2020	B11 B12	Provide a copy of the Construction Environmental Management Plan and evidence of submission to Planning Secretary.  Provide a statement within the report confirming that the Construction Environmental Management Plan has been made in accordance with the requirements (a)-(f) of this condition.	CEMP Section 1.2			
SSDA	Air Quality	10389 / 10388	30 Nov 2020	C25 C22	The Applicant must take all reasonable steps to minimise dust generated during all works authorised by this consent.	During construction Air Quality Management Sub Plan Management Controls			
SSDA		10389 / 10388	30 Nov 2020	C26 C23	During construction, the Applicant must ensure that:  (a) exposed surfaces and stockpiles are suppressed by regular watering.  (b) all trucks entering or leaving the site with loads have their loads covered.  (c) trucks associated with the development do not track dirt onto the public road network.  (d) public roads used by these trucks are kept clean; and  (e) land stabilisation works are carried out progressively on site to minimise exposed surfaces	During construction Air Quality Management Sub Plan Management Controls Points 2,6,8,9,10			
SSDA	Biodiversity & Natural Habitat	10389	30 Nov 2020	C23	Tree Protection  For the duration of the construction works:  (a)street trees must not be trimmed or removed unless it forms a part of this development consent or prior written approval from Council is obtained or is required in an emergency to avoid the loss of life or damage to property.  (b) all street trees immediately adjacent to the property boundary along Campbell Street,  Forbes Street, Goulburn Street and Elizabeth Street, unless approved for removal, must be protected at all times during construction in accordance with Council's tree protection requirements. Any street tree, which is damaged or removed during construction due to an emergency, must be replaced, to the satisfaction of Council.  (c) all trees on the site that are not approved for removal must be suitably protected during construction as per the recommendations of the Arboriculture Impact Assessment	During construction Biodiversity & Natural Habitat Management Sub Plan Management Controls Points 1-5			

lendlease	

Constru	ction							
					Tree Protection Specification, prepared by treeIQ, dated 5 March 2020: and (d) if access to the area within any protective barrier is required during the works, it must be carried out under the supervision of			
					qualified arborist. Alternative tree protection measures must be installed, as required. The removal of tree protection measures, following completion of the works, must be carried out under the supervision of a qualified arborist and must avoid both direct mechanical injury to the structure of the tree and soil compaction within the canopy or the limit of the former protective fencing, whichever is the greater.			
		10388 / 10389		B27 B26	Landscaping Provide a copy of the landscape plans and a design statement confirming that the plans include the requirements (a)-(d) of this condition the following: (a) provide for the planting of 81 trees; (b) detail the location, species, maturity and height at maturity of plants to be planted on-site; (c) include species (trees, shrubs and groundcovers) indigenous to the local area; and (d) include the planting of trees with a pot container of 75 litres or greater.  B26 – 10389	Prior to construction Biodiversity & Natural Habitat Management Sub Plan		
					Prior to the commencement of construction, the Applicant must prepare and submit to the Planning Secretary a revised Landscape Plan to manage the revegetation and landscaping works on-site. The plan must:  (a) provide for the planting of 150 trees;  (b) detail the location, species, maturity and height at maturity of plants to be planted on-site; (c) include species (trees, shrubs and groundcovers) indigenous to the local area;  (d) include the planting of trees with a pot container of 75 litres or greater; and  (e) include the provision of street tree planting. Species and spacing of trees to be determined in Consultation with Council.			
SSDA	Contamination	10388 / 10389	30 Nov 2020	A19 A20	Site Contamination Remediation approved as part of this development consent must be carried out in accordance with the Remediation Action Plan (RAP), dated 29 April 2020, prepared by JK Environments, or any updated RAP, prepared by a Certified Contaminated Land Consultant.	Prior to construction Contamination Management Sub Plan		
SSDA		10388 / 10389	30 Nov 2020	B9 A20	Prior to the commencement of construction, except demolition works, further post-demolition validation investigation outlined in Remediation Action Plan (RAP), dated 30 April 2020, prepared by JK Environments, must be conducted to determine the full nature and extent of the contamination at the project area after demolition works. The post-demolition validation investigation(s) must be undertaken, and the	Prior to construction Contamination Management Sub Plan		







Construc	tion							
					<ul> <li>(iii) a description of the procedures for managing any leachate generated from the containment cell, including any requirements for testing, pumping, treatment and/or disposal.</li> <li>(iv) a description of the procedures for monitoring the integrity of the containment cell; (v) a surface and groundwater monitoring program.</li> <li>(vi) mechanisms to report results to relevant agencies.</li> <li>(vii) triggers that would indicate if further remediation is required; and</li> <li>(viii) details of any contingency measures that the Applicant is to carry out to address any ongoing contamination.</li> </ul>			
		10389 / 10388	30 Nov 2020	E3 E2	Long Term Environmental Management Plan Upon completion of remediation works, and where a LTEMP has been prepared, the Applicant must manage the site in accordance with the LTEMP approved under condition D28 and any on-going maintenance of remediation notice issued by EPA under the Contaminated Land Management Act 1997	Contamination Management Sub Plan		
	Heritage & Archaeological	10389 / 10388	30 Nov 2020	B23 B25	Archaeological Salvage – Historic Archaeology Prior to the commencement of construction, a suitably qualified and experienced historical archaeologist, who meets Heritage Council of NSW's Criteria for assessing Excavation Directors, must be nominated to manage a historical archaeological program.  B25 10388 Prior to the commencement of construction, except demolition works, a suitably qualified and experienced historical archaeologist, who meets Heritage Council of NSW's Criteria for assessing Excavation Directors, must be nominated to manage a historical archaeological program.	During construction Heritage & Archaeological Management Sub Plan Management Controls Point 7		
		10389 / 10388	30 Nov 2020	B24 B26	Archaeological Salvage – Historic Archaeology Prior to the commencement of construction, an Archaeological Research Design and Excavation Methodology must be prepared to the satisfaction of the Planning Secretary to guide the historical archaeological program. It must be prepared in accordance with Heritage Council of NSW guidelines and in consultation with Heritage NSW. The final approved Archaeological Research Design and Excavation Methodology must be provided to Council.	Heritage & Archaeological Management Sub Plan Management Controls Point 2		
		10389	30 Nov 2020	C10	Archaeological Salvage – Historic Archaeology The historical archaeological program is to be undertaken in accordance with the approved Archaeological Research Design and Excavation Methodology under condition B24 and B26	Heritage & Archaeological Management Sub Plan Management Controls Point 2		
		10389 / 10388	30 Nov 2020	C11 C10	Archaeological Salvage – Historic Archaeology A final archaeological excavation report must be prepared within 12 months of the completion of archaeological excavation. The report must include details of any significant artefacts recovered, where they were located and details of their ongoing conservation and protection in perpetuity. Copies of the final excavation report must be provided to the Planning	Heritage & Archaeological Management Sub Plan Management Controls Point 8		

lendlease	1

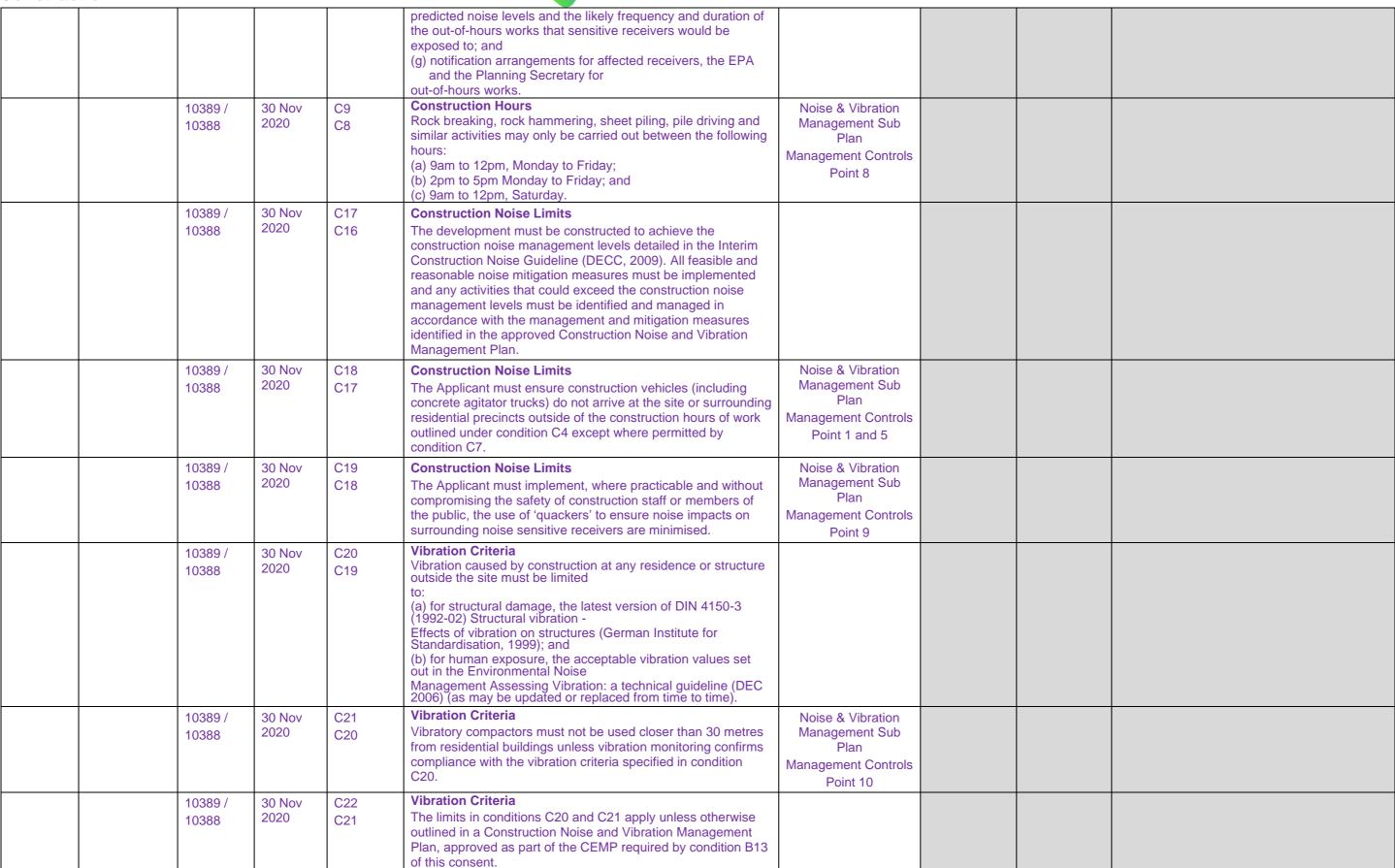
Construction Secretary, Heritage NSW, and Liverpool Council's local studies 10389 / 30 Nov C12 **Heritage Interpretation Strategy** Post construction 10388 C11 A Heritage Interpretation Strategy (HIS) must be prepared 2020 Heritage & within 12 months of the completion of archaeological Archaeological excavation, in consultation with Heritage NSW, and submitted Management Sub to the Planning Secretary and Council. The HIS must ensure Plan that the final design (building and landscaping) incorporates **Management Controls** the results of previous and current archaeological excavations Point 8 undertaken at Liverpool Hospital. This must include key results from the final excavation reports (prepared by Higginbotham, 1995 and AHMS, 2009) including artefacts, and where these can be located. Where relevant this should include information on the display and housing of artefacts. **Unexpected Finds Protocol – Aboriginal Heritage** 10389 30 Nov C32 During construction 10388 2020 C29 In the event that surface disturbance identifies a new Heritage & Aboriginal object, all works must halt in the immediate area to Archaeological prevent any further impacts to the object(s). A suitably qualified Management Sub archaeologist and the registered Aboriginal representatives Plan must be contacted to determine the significance of the **Management Controls** object(s). The site must be registered in the Aboriginal Point 6 Heritage Information Management System (AHIMS) which is managed by Heritage NSW and the management outcome for the site included in the information provided to AHIMS. The Applicant must consult with the Aboriginal community representatives, the archaeologists, and Heritage NSW to develop and implement management strategies for all objects/sites. Works may only recommence with the written approval of Heritage NSW. **Unexpected Finds Protocol – Historic Heritage** 10389 30 Nov C33 During construction If any unexpected archaeological relics are uncovered during 2020 10388 C30 Heritage & the work, then all works must cease immediately in that area Archaeological and Heritage NSW contacted. Depending on the possible Management Sub significance of the relics, an archaeological assessment and Plan management strategy may be required before further works **Management Controls** can continue in that area. Works may only recommence with Point 6 the written approval of Heritage NSW. B13 Noise & 10389 30 Nov **CEMP** Provide a copy of the Construction Noise and Vibration 10388 2020 Vibration B14 Section 1.2 Management Sub-Plan (CNVMSP) and a statement within the report confirming that the plan addresses the requirements (a)-(g) of this condition. **Construction Hours** 10389 / 30 Nov C4 **During construction** Construction, including the delivery of materials to and from 2020 10388 Noise & Vibration the site, may only be carried out Management Sub between the following hours: Plan (a) 7am and 6pm, Mondays to Fridays inclusive; and **Management Controls** (b) 8am and 1pm, Saturdays. Point 1 and 5 No work may be carried out on Sundays or public holidays. **Construction Hours** 10389 30 Nov C5 **During construction** Construction activities may be undertaken outside of the hours 2020 C5 10388 Noise & Vibration in condition C4 if required: Management Sub (a) by the Police or a public authority for the delivery of Plan vehicles, plant or materials; or **Management Controls** (b) in an emergency to avoid the loss of life, damage to Point 1 and 5 property or to prevent environmental harm: or (c) where the works are inaudible at the nearest sensitive receivers; or

# Waste Management Sub Plan Construction

lendlease	1

Construction							
				(d) for the delivery, set-up and removal of construction cranes, where notice of the crane- related works is provided to the Planning Secretary and affected residents at least seven days prior to the works; or (e) where a variation is approved in advance in writing by the Planning Secretary or his nominee if appropriate justification is provided for the works.			
	10389 / 10388	30 Nov 2020	C6 C6	Construction Hours  Notification of such construction activities as referenced in condition C5 must be given to affected residents before undertaking the activities or as soon as is practical afterwards.	During construction Noise & Vibration Management Sub Plan Management Controls Point 1 and 5		
	10389 / 10388	30 Nov 2020	C7 C7	Construction Hours Construction activities may be undertaken outside of the hours in condition C4 for concrete finishing works (including the use of a helicopter float), unless directed otherwise by the Planning Secretary, with these activities restricted to the following times (over and above the hours approved in condition C4):  (a) Friday: 6pm to 10pm.  (b) Saturday: 1pm to 10pm.  (c) Sunday: 8am to 10pm.  10388  Concrete finishing works (including the use of a helicopter float) may be undertaken outside of the hours in condition C4, unless directed otherwise by the Planning Secretary, between the following hours:  (a) Saturday: 1pm to 3pm.	During construction Noise & Vibration Management Sub Plan Management Controls Point 1 and 5		
	10389	30 Nov 2020	C8	Construction Hours The work permitted under condition C7 must only b undertaken where managed by an Out-of-Hours Work Protocol, prepared in consultation with the EPA and Council, and approved by the Planning Secretary. The Protocol must be prepared to identify a schedule for work to be undertaken outside the hours permitted under condition C4 and how they would be managed. The Protocol must provide: (a) a description of the proposed out-of-hours works; (b) predictions of LAeq (15 minute) noise levels at noise sensitive receivers from these works and activities, where noise levels are predicted to be greater than the construction noise management level (NML); and (c) a monitoring plan to validate the noise predictions, based on monitoring at the boundary of representative sensitive receivers during noise generating activities that are representative of the out-of-hours works; (d) identification of proposed mitigation and management measures; (e) consideration of out-of-hours work against the relevant NML and vibration criteria; (f) a process for consultation with the community at each affected location for identifying and implementing mitigation measures where the NML would be exceeded, including respite periods. The measures must take into account the	During construction Noise & Vibration Management Sub Plan Management Controls Point 1 and 5		

#### Construction



# Waste Management Sub Plan Construction

lendlease

Construction							
Stormwater, Erosion and Sediment	10389 / 10388	30 Nov 2020	B16 B17	Soil and Water Prior to the commencement of construction, the Applicant must install erosion and sediment controls on the site to manage wet weather events.	Stormwater, Erosion and Sediment Management Sub Plan Management Controls		
	10389 / 10388	30 Nov 2020	B17 B18	Soil and Water  Prior to the commencement of construction, erosion and sediment controls must be installed and maintained, as a minimum, in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom 2004) commonly referred to as the 'Blue Book'	Stormwater, Erosion and Sediment Management Sub Plan Management Controls		
	10389 / 10388	30 Nov 2020	C27 C24	Erosion and Sediment Control  All erosion and sediment control measures must be effectively implemented and maintained at or above design capacity for the duration of the construction works and until such time as all ground disturbed by the works has been stabilised and rehabilitated so that it no longer acts as a source of sediment. Erosion and sediment control techniques, as a minimum, are to be in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom, 2004) commonly referred to as the 'Blue Book'.	Stormwater, Erosion and Sediment Management Sub Plan Management Controls Point 4 and 5		
	10389 / 10388	30 Nov 2020	C29 C26	Disposal of Seepage and Stormwater  Adequate provisions must be made to collect and discharge stormwater drainage during construction of the building to the satisfaction of the principal Certifier. The prior written approval of Council must be obtained to connect or discharge site stormwater to Council's stormwater drainage system or street gutter	Stormwater, Erosion and Sediment Management Sub Plan Management Controls Point 8		
	10389 / 10388	30 Nov 2020	C31 C28	Stormwater Management System Within three months of the commencement of construction, the Applicant must design an operational stormwater management system for the development and submit it to the satisfaction of the Certifier. The system must:  (a) be designed by a suitably qualified and experienced person(s).  (b) be generally in accordance with the conceptual design in the EIS.  (c) be in accordance with applicable Australian Standards; and (d) ensure that the system capacity has been designed in accordance with Australian Rainfall and Runoff (Engineers Australia, 2016) and Managing Urban Stormwater: Council Handbook (EPA, 1997) guidelines.	Stormwater, Erosion and Sediment Management Sub Plan Management Controls		
	10389 / 10388	30 Nov 2020	B17 B18	Provide confirmation of the installment erosion and sediment controls on the site to manage wet weather events. Provide a design statement confirming erosion and sediment controls will be installed and maintained, as a minimum, in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom 2004) commonly referred to as the 'Blue Book'.			
	10389	30 Nov 2020	E16	Discharge Limits	Management Controls		

## Construction

				The development must comply with section 120 of the POEO Act, which prohibits the pollution of waters.	Point 8	
Waste Management	10389 / 10388	30 Nov 2020	B14 B15	The Construction Waste Management Sub-Plan (CWMSP) must address, but not be limited to, the following:  (a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling, and disposal locations;  (b) removal of hazardous materials, particularly the method of containment and control of emission of fibres to the air, 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 construction.	Waste Management Sub Plan Management Controls Point 1	
	10389 / 10388	30 Nov 2020	C34 C31	Waste Storage and Processing All waste generated during construction must be always secured and maintained within designated waste storage areas and must not leave the site onto neighbouring public or private properties.	Waste Management Sub Plan Management Controls Point 8	
	10389 / 10388	30 Nov 2020	C35 C32	Waste Storage and Processing All waste generated during construction must be assessed, classified, and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014).	During construction Waste Management Sub Plan Management Controls Point 8	
	10389 / 10388	30 Nov 2020	C36 C33	Waste Storage and Processing The Applicant must ensure that concrete waste and rinse water are not disposed of on the site and are prevented from entering any natural or artificial watercourse.	During construction Waste Management Sub Plan Management Controls Point 9	
	10389 / 10388	30 Nov 2020	C37 C34	Waste Storage and Processing The Applicant must record the quantities of each waste type generated during construction and the proposed reuse, recycling, and disposal locations for the duration of construction.	During construction Waste Management Sub Plan Management Controls Point 4	
	10389 / 10388	30 Nov 2020	C38 C35	Water Storage and Processing The Applicant must ensure that the removal of hazardous materials, particularly the method of containment and control of emission of fibres to the air, and disposal at an approved waste disposal facility is in accordance with the requirements of the relevant legislation, codes, standards, and guidelines.	Waste Management Sub Plan Management Controls Point 1	