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COMMERCIAL BUILDING C1

SSD 8529

BARANGAROO SOUTH

ENVIRONMENTAL, CONSTRUCTION, AND SITE MANAGEMENT PLAN

March 2018

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Appendices

Abbreviations

LL:	Lendlease (Millers Point)
LLB:	Lendlease Building
BDA:	Barangaroo Delivery Authority
DP&E:	NSW Department of Planning & Environment
ECSMP:	Environmental, Construction and Site Management Plan
EH&S:	Environment, Health and Safety
EIS:	Environmental Impact Statement
EPA:	NSW Environment Protection Authority
GFA:	Gross Floor Area
PM:	Project Manager
SM:	Site Manager
SSD:	State Significant Development
SWMS:	Safe Work Method Statement
WMP:	Waste Management Plan

1 Executive Summary

This Environmental, Construction and Site Management Plan (ECSMP) has been developed by Lendlease Building for Lendlease Millers Point (hereafter referred to as Lendlease). The ECSMP is a framework to address environmental issues associated with the Commercial Building C1, part of Stage 1A works at Barangaroo South, Millers Point, NSW. Commercial Building C1 is proposed to be a seven storey commercial building with ground floor retail.

The C1 building would be located on Hickson Road between Waterman's Quay and City Walk Bridge. The building would be immediately north of International House Sydney (IHS), east of International Towers Sydney and south of the future R5 Residential Tower in Barangaroo Stage 1B.

As part of the works associated with this phase of the project, Lendlease proposes construction of Commercial Building C1 within the Stage 1A area adjacent to Hickson Road. Commercial Building C1 would be contained within the area of the Stage 1A basement.

Commercial Building C1 is included in the project application SSD 8529.

As part of the works associated with the Commercial Building C1 project, Lendlease is aiming to undertake the following activities within the Barangaroo site:

- Construction of low-rise building superstructure;
- Cladding and façade works;
- Construction of precinct wide basement bike entrance;
- Building services; and
- Building finishes.

A tower crane and hoist would be used for materials handling. A materials handling team member would ensure efficient management of deliveries and removals, minimising disruption to traffic around the site.

Works are proposed to be generally undertaken between the hours of 7.00am and 7.00pm Monday-Friday and between 7.00am and 5.00pm on Saturdays. Occasional night works, and works on Sundays or public holidays, would be required where dictated by authority requirements (such as road closures) or for worker or public safety (such as utilising cranes for special lifts and works around Hickson Road).

Construction activities would be locally enclosed by hoarding or temporary fencing staged according to the works. Site vehicle access would be via temporary access points, as per the Traffic Management Plan. New lunch, change and ablution facilities within the construction site would be available for the use of site personnel.

All site personnel, including subcontractors and visitors, would be inducted under Lendlease's Environment, Health and Safety (EH&S) Management System. Records of all induction, ongoing training and reporting would be maintained.

Site specific environmental management protocols would be established to ensure environmental responsibilities are implemented and documented.

A primary contact(s) to deal with environmental emergencies would be nominated and their 24 hour/day 7 days/week contact details prominently displayed on site.

Management and monitoring of noise and vibration generated from construction activity would be addressed using measures in the *Barangaroo South; C1 Commercial Building - Construction and Operational Noise Report* and the existing *Noise & Vibration Management Sub-Plan* in use at the site.

Dust suppression, as well as erosion and sediment control measures, would be installed prior to excavation works and service installations, and would be maintained for the duration of construction.

Management of construction generated solid and liquid waste would be addressed in accordance with the existing *Spoil & Waste Management Sub-Plan* in use at the site.

The works would not involve any interaction with soils or groundwater, as the C1 Building would be constructed over the existing Stage 1A Basement. The Stage 1A Basement and the C1 Building are both included in a Site Audit Statement that deemed the area suitable for the proposed uses.

Vehicular and pedestrian traffic management and controls would be implemented and monitored to minimise disruptions to site activities and surrounding road network. The site haulage routes and delivery locations would continue to be managed as reported in other Stage 1A construction projects.

A Community Consultation Strategy would be implemented to maintain a good neighbour policy with surrounding businesses, residents and special interest groups during construction.

2 Project Understanding

This report supports the State Significant Development Application (SSDA) 8529 submitted to the Minister for Planning and Infrastructure pursuant to Part 4 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). This report addresses relevant Director-General Requirements for the project. These Director-General Requirements are discussed in the Environmental Impact Statement (EIS) that has been prepared to support the application.

The SSDA seeks approval for construction of Commercial Building C1 within Stage 1A at Barangaroo South as described in the Project Description section of this report. The scope of work includes:

- Construction of low-rise building superstructure;
- Cladding and façade works;
- Building services; and
- Building finishes.

This plan has been prepared to accompany the EIS for Commercial Building C1. It addresses the following items as required by the Secretary's Environmental Assessment Requirements (SEARs):

- Community consultation, notification and complaints handling – Section 5.7;
- Construction impacts and mitigation measures – Section 5;
- Noise and vibration impacts on and off site – Section 5.1;
- Air quality impacts – Section 5.2;
- Odour impacts – Section 5.2;
- Water quality management – Section 5.3; and
- Construction waste classification, transportation and management methods – Section 5.4.

2.1 Background

The 22 hectare Barangaroo site has been divided into three distinct redevelopment areas (from north to south) – the Headland Park, Barangaroo Central and Barangaroo South. Lendlease was successfully appointed as the preferred proponent to develop Barangaroo South on 20 December 2009.

A number of adjacent or recent development consents were received for Barangaroo South Stage 1A. The details of those consents, and current status, are summarised in Table 2.1 below:

Table 2.1 – Relevant development consents

Development Application	Consent No.	Proponent	Approval Date	Status
Concept Plan Barangaroo, including Modifications 1-8	06-0162	BDA	09/02/2007	Ongoing
Bulk Excavation & Basement Car Parking	MP10_0023	LLMP	02/11/2010	Occupation
C2 Commercial Building	SSD 6425	LLMP	25/06/2014	Occupation
C3 Commercial Building	MP11_0044	LLMP	24/04/2012	Occupation
C4 Commercial Building	MP10_0025	LLMP	03/03/2011	Occupation
C5 Commercial Building	MP10_0227	LLMP	24/04/2012	Occupation
Building R1	SSD 6513	LLMP	25/08/2016	Construction
Building R7	SSD 6623	LLMP	11/08/2015	Occupation
Stage 1A Public Domain	SSD 6303	LLMP	05/03/2015	Occupation

2.2 Project Description

The Commercial Building C1 SSD 8529 seeks approval for construction of all elements of the building within 'Stage 1A' of the Barangaroo South site. These works include typical low rise building construction activities as described in Section 3.

The C1 building design and construction is similar to the completed C2 building, and consists of the following:

- Ground floor retail.
- Total floor space to be 11,748m^2 GFA.
- Lifts to support basement access to facilities, loading dock, mail room and waste management.
- Integrate existing basement risers.
- Access to existing basement bicycle parking.

2.3 ECSMP Context

This ECSMP links the planning approval process and the Lendlease Environment Health and Safety (EH&S) Management System to be implemented for construction. This ECSMP generally describes environmental management protocols that would be implemented through the EH&S Management System. It is a conceptual tool that assists in informing suitable high standards of environmental protection during construction and would provide guidance for environmental controls to be implemented before and during construction.

It should be noted that the existing Stage 1A Construction Framework Environment Management Plan (CFEMP), and associated sub-plans, is used to implement the requirements of planning approvals, licences and permits throughout construction. The Stage 1A sub-plans include the following:

- Air Quality & Odour Management Sub-Plan;
- Noise & Vibration Management Sub-Plan;
- Spoil & Waste Management Sub-Plan;
- Water & Stormwater Management Sub-Plan.

The CFEMP and sub-plans are updated on a regular basis, have been reviewed by the EPA, and approved by the Secretary (previously Director General) of the Department of Planning & Environment. The CFEMP and associated sub-plans would be updated to include any additional requirements from this planning application.

2.4 Lendlease Environment Health and Safety Management System

2.4.1 Background information

LLB's construction management would be implemented through the EH&S Management System. The EH&S Management System is based on ISO14000 and has been accredited under the NSW Government Environmental Management Systems Guidelines. It translates the LLB Environment, Health and Safety Policy into processes so that environmental responsibilities and performance can be monitored, reported and improved. Processes to ensure continual improvement in environmental performance are part of the EH&S Management System and are referred to as EH&S throughout this document.

The LLB EH&S Management System was developed to focus on a project specific EH&S Plan, covering the majority of construction activity risks to be identified and managed. Both environmental and safety issues are included in the EH&S Plan, prepared specifically for each project based on a template. Mandatory company procedures (i.e. risk assessment, reporting, auditing, and emergency / incident management etc), standard forms and minimum company standards are all included in the template. While there are common management procedures and forms used for environmental and safety assessment, a specific CFEMP and associated environmental management sub-plans are prepared for project specific conditions.

2.4.2 EH&S Standards

Company EH&S Standards and requirements apply to all personnel on the project. Project specific rules are to be developed in accordance with Company EH&S Standards. Project specific requirements would be explained in tender packages and clarified in site inductions.

The EH&S Plan would address and provides detail on measures outlined in this ECSMP. The EH&S Plan would coordinate and consolidate appropriate protection and / or mitigation measures and controls before, during and after construction. The following items would generally be considered as part of the EH&S Plan:

- community consultation;
- general hazards and risk mitigation;
- noise and vibration management;
- air quality and odour control;
- contaminated soil and water management;
- stormwater and erosion management;
- waste management; and
- hazardous goods and chemical management.

2.4.3 Roles and Responsibilities

Project Roles and Responsibilities for EH&S would be detailed in the EH&S Plan. Key staff and service provider responsibilities for the delivery of the Environment, Health and Safety Policy would be detailed in the EH&S Plan. More specific roles and responsibilities are outlined in **Table 4-1**.

3 Site Management

The site of Commercial Building C1, and a general arrangement site plan, is included in **Appendix A**.

3.1 Site Establishment

3.1.1 Parking

No on-site parking is proposed to be made available for construction personnel.

3.1.2 Security and Hoarding Management

It is proposed that the Building C1 site will be generally enclosed by Class B hoardings throughout the construction phase. This type of hoarding facilitates pedestrian movement.

Where reasonably practical, the Class B would be installed around the site perimeter to provide pedestrian movement around. However, it is acknowledged the construction loading zone may restrict pedestrian movement north along Hickson Road, between the basement exit ramp and Watermans Quay.

In the event perimeter access cannot be achieved to the entire site, the site team will develop alternative pedestrian routes together with way finding signage. All to be discussed and agreed with the BDA.

The final hoarding arrangements would be agreed with the BDA prior to the relevant Construction Certificate being issued.

3.1.3 Loading Zone

It is proposed that a construction loading zone will be located between Watermans Quay and the basement exit ramp on Hickson Road. The zone will be in operation for the majority of the construction duration.

The final loading zone arrangements will be developed with the BDA, the Sydney Coordination Office and the City of Sydney as part of the development and approval for a Construction Pedestrian and Traffic Management prior to the relevant Construction Certificate being issued. The proposed Works Zone and other relevant traffic devices or facilities will require the endorsement of the City of Sydney's Local Pedestrian, Cycling and Traffic Calming Committee (i.e. Traffic Committee) prior to implementation. Permits may be required for works and fees and charges may be applied by relevant authorities within their jurisdiction. All fees and charges will be agreed with the relevant authority prior to commencing works. (Refer to section 5.5 for issues relating to traffic management.)

To ensure controlled access is maintained on the project, a security swipe card system would be put in place for the C1 Building site. All construction workers and visitors are issued with a swipe card at their induction. This allows Lendlease to monitor all onsite personnel at any given time. A visitor's register is maintained on site at all times with all visitors to sign the register before accessing site with a site inducted person.

3.1.4 Safety Information

All employees and subcontractors on site must first complete the site induction in accordance with the Lendlease EH&S management system. In addition, all subcontractors must induct their employees into their specific safe work procedures and submit evidence of appropriate management mechanisms to Lendlease.

Lendlease would periodically conduct internal safety audits. The audit team would consist of the Lendlease EHS Manager, EH&S Safety Coordinator, and a Subcontractor Representative.

An EH&S information board would be erected within the Barangaroo South site, and a copy of the Lendlease EH&S policy would prominently be displayed on the board.

3.1.5 First Aid Facilities

Lendlease would ensure First Aid Facilities are provided in accordance with WorkCover requirements. Subcontractors are to provide First Aiders for their individual company works. A nominated first aider would be on site whenever work is being carried out. This would be either a Lendlease or Subcontractor representative.

3.1.6 Approved plans to be on-site

In accordance with likely conditions of consent, Lendlease would maintain a copy of approved and certified plans, specifications and documents incorporating conditions of approval and certification on site at all times.

3.1.7 Dilapidation Survey

A dilapidation survey would be undertaken for adjacent structures, domains and services infrastructure.

3.1.8 Site Notice

In accordance with the likely conditions of consent, Lendlease would display, at the boundaries of the site, the project's certifier and the relevant emergency contact name and contact number.

3.1.9 Neighbours

Lendlease has developed a Community Consultation Strategy (**Appendix B**) as part of ongoing engagement with the local community and key stakeholders regarding Barangaroo South. The objective of the strategy is to provide a process to engage the community and key stakeholders in the delivery of Barangaroo South. The objectives are to:

- Ensure all stakeholders and affected community members are well informed about the Barangaroo South development and are given an opportunity to provide input into the project;
- Minimise impacts to affected residents and stakeholders; and
- Create opportunities for stakeholders to access transparent information on the project and provide forums for feedback and enquires.

Lendlease has a commitment to an inclusive and pro-active community and stakeholder engagement process, which would be both responsive (to complaints) and proactive (with provision of information).

3.2 Construction Methodology

All works would be carried out to satisfy the Consent Authority's requirements, ensuring safety and continuity of the works. Works are anticipated to take 13 months to complete, and would commence in July 2018.

3.2.1 Substructure Construction

The C1 substructure would be entirely within the existing basement as part of the Stage 1A Basement works.

3.2.2 Superstructure Construction

Conventional low-rise formwork systems would be utilised for level 1 only. The core structure (ground -L1) will be shutter formed. Levels 2 to the roof will be built from prefabricated timber elements using a small crew and tower crane. A supplementary crane maybe required to support these activities from time to time.

Edge protection types to each floor will vary and include proprietary systems such as screens, scaffold and Workright frames. These systems will be integrated with a materials hoist and loading platforms.

Loading platforms will be installed on each floor for pre-loading services, façade and finishes.

3.2.3 Building Services

Installation of building services would proceed in association with the progress of the superstructure. Access and materials handling will be undertaken via man and materials hoists.

3.2.4 Building Cladding and Façades

Construction of building cladding and façades would proceed in association with the progress of the superstructure. It is anticipated the façades would trail the structure by three floors.

3.2.5 Building Finishes

Installation of building finishes would proceed in association with progress of preceding programming items. Access and materials handling would be undertaken via man and materials hoists, a tower crane and goods lift.

4 Environmental Management

4.1 Environmental Management Structure and Responsibility

The relevant ECSMP responsibilities are presented below in **Table 4.1**. Responsibilities would be implemented as part of the Project EH&S Plan.

Table 4.1 - ECSMP Responsibilities

Individual	Responsibility
All Staff including Sub-Contractors	All staff have responsibility for their own environmental performance. In particular, all staff should: • Undertake construction as per agreed management plans, procedures and work methods. • Ensure that they are aware of the contact person(s) regarding environmental matters. • Report any activity that has resulted, or has the potential to result, in an environmental incident. • Ensure they attend the environmental training provided.
Lendlease	Lendlease has the following responsibilities under the ECSMP: • Provide clear guidance under the EH&S Management System so that work undertaken is consistent with legal and contractual requirements. • Under risk assessment, to identify environmental risks. • Provide adequate resources for implementation and maintenance of the EH&S System. • Participate in the regular review of the EH&S System and associated documents.
EHS Manager	The EHS Manager would have responsibility for environmental management, including: • Prepare documents for operational deployment of the ECSMP, CFEMP and related documents. • Provide environmental advice on matters specified in conditions of approval, licences and permits. • Nominate appropriate pollution control measures for proposed works. • Comply with requirements of environmental documents, including contracts. • Facilitate induction and training programs for all persons involved in construction works. • Liaise with relevant government authorities such as the EPA and DP&E. • Implement and review compliance with the EHS system and environmental documents. • Maintain all necessary monitoring records and reports. • Report any activity that has resulted, or has the potential to result, in an environmental incident.
Project Managers	Project Managers are responsible for: • Informing the Site Foreman of their EHS responsibilities. • Allocate resources to meet the requirements of the EHS management system. • Investigate complaints to determine effective resolution. • Maintain all necessary monitoring records and reports. • Take action in the event of an environmental emergency and allocating required resources to minimise impact. • Report any activity that has resulted, or has the potential to result, in an environmental incident.
Site Foreman	The Site Foreman's responsibilities under the EHS management system include: • Manage works as per requirements of the EHS system, work instructions, and associated documents including the implementation of environmental controls. • Undertake environmental duties as defined by the Project Manager. • Attend to spills or environmental incidents that may occur on site. • Report activity that has resulted, or has the potential to result, in an environmental incident immediately to the Project Manager or Environment Manager. • Issue instructions and related information to employees that relate to environmental risks on site. • Where necessary, coordinate environmental inspections and maintain environmental records as defined by the EHS management system and work instructions.
Sub-Contract Personnel	All sub-contract personnel must carry out the work in accordance with contract instructions and would conduct their activities in an environmentally sound manner. All sub-contract personnel would undergo environmental induction before they commence any work on the construction site.

4.2 Reporting

Reporting for environmental issues would generally be undertaken for:

- pre-construction compliance;
- construction monitoring;
- non-compliance and corrective action;
- complaint management;
- auditing.

4.3 Environmental Training

4.3.1 Site Induction Training

Site induction would be undertaken in accordance with the EH&S Management System.

Prior to commencing work on the project, all staff and subcontractors would receive induction training that includes the following environmental information as a minimum:

- Overall EH&S Management System structure;
- Environment Health and Safety Policy;
- Roles and responsibilities and site management contact details;
- Relevant legislation as may be deemed appropriate;
- Key environmental issues and controls (covering environmental issues related to air quality, water quality, erosion and sedimentation, noise, traffic and access as necessary);
- Hazards, risks and emergency response plans, and
- Incident Reporting.

Those elements of the EH&S Management System that directly relate to the work to be carried out by the person or persons being inducted, would be covered as part of the induction.

4.3.2 Specialist Environmental Training

In addition to the induction program, specialised training would be provided to personnel, when deemed necessary, to present them with the knowledge, skills and awareness to minimise impact of site activities on the environment.

4.3.3 Training Records

Induction and training records would be maintained and include information on trainees, trainer, date, and training content.

4.4 Emergency Contacts and Response

4.4.1 General

An environmental incident is an unplanned event, such as an oil or chemical spill that occurs on site and could cause significant adverse environmental impacts. The EH&S Plan would nominate specific persons to be the primary contact for environmental emergencies. The nominated persons would be available 24-hours/day, 7-days/week.

4.4.2 Emergency Contacts

Emergency contacts are to be clearly displayed within the Site Office and to be accessible by the project team, e.g. Project Noticeboard. The accident and corresponding contact would be clear and concise as shown below in **Table 4.2**

Table 4.2 – Example Emergency Contacts

Accidents and Emergencies	Contact Telephone Number
Fire Brigade	000
Police	000
Ambulance	000
EPA Pollution Line	131 555
Dangerous Good Licencing Hotline	131 050
Work Cover	(02) 9827-8600

4.4.3 Site Information for Hazardous Materials

Specific guidance for storage and handling of hazardous materials on site would be implemented as part of the Project EH&S Plan.

5 Construction Environmental Management

5.1 Noise & Vibration

The report from Wilkinson Murray dated July 2017 titled *Barangaroo South; C1 Commercial Building - Construction and Operational Noise Report* states that construction works and related activities would largely comply with construction noise management levels at surrounding residential receivers, and relevant vibration guidelines. Vibration is predicted to be imperceptible at the surrounding receivers.

Management Controls and Mitigation Measures
Noise and vibration would be managed as per the existing *Noise & Vibration Management Sub-Plan*. The Sub-Plan provides specific abatement guidance for the cumulative construction noise, which is the most likely process to exceed noise guideline levels.

The primary mitigation measure is that the location of acoustically significant plant next to the T1 building should be avoided where possible.

Monitoring
Attended noise monitoring would be conducted:

- In response to complaints; or
- Where specific monitoring is needed.

Vibration monitoring would be conducted:

- In response to complaints, or
- Where specific monitoring is needed, for example, where vibration is produced near structures to confirm working distances.

5.2 Air Quality and Odours

Dust and odour from construction is not expected to be significant, as per the *Letter of Opinion - Barangaroo South Commercial Building C1 - Air Quality* from AECOM (July 2017).

AECOM considered that in the context of the works being undertaken at the Barangaroo South site, the Building C1 works proposed are relatively minor.

AECOM considered that dust can be effectively controlled through normal construction mitigation measures such as the use of localised water sprays, and minimisation of vehicular movement over construction materials.

Management Controls and Mitigation Measures
The installation and application of air quality controls during construction would be in accordance with the existing *Air & Odour Management Sub-Plan*, and specifically the following principles:

- All equipment used and all facilities erected on site are to be designed and operated to control the excessive emission of smoke, dust, fumes and any other air impurity into the atmosphere;
- Spray localised dusty work surfaces as necessary with water to reduce dust generation;
- Cover loads in trucks transporting waste material from the site to prevent windblown dust emissions and spillages;
- Subcontractors would maintain all construction equipment to reduce exhaust emissions.

Monitoring
The Site Manager (SM) would visually monitor levels of dust deposition and air quality, the effectiveness of dust emission controls and the construction site and the impacts of any nuisance on adjoining properties.

5.3 Stormwater and Erosion

The majority of erosion and sediment controls would be implemented as part of an Erosion and Sediment Control Plan to be prepared prior to construction. These include controls at stormwater drains and localised controls around specific works.

Management Controls and Mitigation Measures

Prior to any works commencing on site, all erosion and sediment control measures would be installed. These measures would include supplementary erosion and sediment controls implemented as part of Barangaroo South, as deemed necessary:

- Installation of additional sediment fencing, or jersey kerbs with bitumen to provide seals;
- Installation of silt arrestors to collect site runoff and retain suspended particles; and
- Placement of sediment controls around and along any catch drains.

Refuelling using mini-tankers would be undertaken on site for construction equipment, such as loaders, mobile cranes and other plant / equipment operating on site.

Stormwater would be managed as per the existing *Water and Stormwater Management Sub-Plan*.

5.4 Waste Management

The Building C1 works would result in minimal waste generation. It is estimated that the works would generate around 200m^3 of general construction waste.

No hazardous materials or dangerous goods would be stored on site.

The goal for construction waste management is primarily the reduction of waste generated. Waste reduction would occur through materials procurement, handling, storage and use. Waste generated during construction would be reused onsite, or recycled or disposed at a suitably licenced facility.

Waste collection would be appropriately managed through the staged nature of construction and the use of known quantities of materials. The majority of recyclable material that could be recovered during construction is likely to be off cuts and discards of concrete reinforcement (steel) and excess concrete. Waste would be managed as per the existing *Spoil & Waste Management Sub-Plan*, and be appropriately classified as per the EPA's Waste Classification Guidelines (2014) prior to reuse or disposal off-site accordingly.

5.5 Traffic Management

As part of construction activities, traffic management and controls would be implemented both within and surrounding the development site.

The following minimum goals have been identified in relation to traffic management:

- Provide a safe environment during construction for construction workers;
- Provide a safe environment for road users and pedestrians using adjacent roads; and
- Limit delay times within the surrounding road network.
- Coordinate activities with adjacent worksites within Barangaroo to proactively resolve interface issues.

Traffic management and control measures would be implemented within the site to clearly identify proposed construction locations. The placement of jersey kerbs and fencing would provide a safe environment for construction personnel, vehicles and pedestrians. Associated signage would supplement physical structures within the site.

Adequate directional and warning signage would be installed surrounding the development site to clearly inform motorists, cyclist and pedestrians of the approaching changes within Hickson Road and Watermans Quay. Signage would also inform delivery drivers of the proposed entry and exit gate locations.

All proposed traffic management and controls would be documented in the detailed design stage by accredited Roads and Maritime Services (RMS) traffic control designers and where required, the approval obtained by the necessary statutory approval organisations. Road occupancy certificates would be obtained prior to any works commencing where appropriate.

5.6 Management of Existing Services

Existing services within the development area consist of electrical, communications, gas and stormwater drainage conduits. Associated drainage, sewer and communication services would be diverted from within the construction area with temporary connections made, as required.

5.7 Consultation Strategy and Management

The Community Consultation Strategy (**Appendix B**) would be used to engage with stakeholders in relation to the construction works programme and managing complaints and enquiries.

The potential for negative environmental and amenity impacts during construction, although over a relatively short duration, would be reduced though environmental management during construction, ongoing community engagement and provision of project information such as operating hours and traffic routes.

Due to the nature of the proposed construction works and the proximity of the site to the local community, appropriate mitigation measures and safeguards are required to avoid the potential for impacts such as:

- Noise and vibration generated during construction activities, affecting adjoining properties;
- Dust generated from construction activities, affecting adjoining properties; and
- Vehicles leaving the construction site depositing construction materials on public roads.

Existing properties directly affected by the construction program would be advised of works and provided with contact details, which would be supported by a community relations team providing:

- A contacts database for registering, managing and reporting complaints & enquiries;
- A 1300 number for enquiries & complaints;
- A website with a dedicated email address and feedback forms; and
- Specific information in the form of letters, fact sheets and newsletters for the local community.

The intent is for all works to be conducted within approved working hours; however, if works are expected to extend beyond these hours, appropriate stakeholders would be notified prior to these activities.

5.8 Environmental Management Plans

The CFEMP and the following associated sub-plans would be implemented during the works:

- Air Quality & Odour Management Sub-Plan;
- Noise & Vibration Management Sub-Plan;
- Spoil & Waste Management Sub-Plan;
- Water & Stormwater Management Sub-Plan.

6 Auditing, Monitoring and Review

6.1 Environmental Monitoring

Monitoring of environmental activities would be undertaken according to the procedures outlined in the EH&S Management System.

The environmental monitoring protocols would be incorporated into the EH&S Management System for the project.

Monitoring records would be collated, distributed, and stored as part of the EH&S Management System.

6.2 Environmental Auditing

Auditing would be undertaken to review the effectiveness and implementation of the Lendlease EH&S Management System at regular intervals.

Audit methodology would be a review of written procedures and implementation activities on site to assess the effectiveness of the management system and control activities.

Audit results would be reviewed and corrective action taken, as necessary. Where corrective action or updates are required, subsequent auditing would be undertaken to confirm the appropriateness of the corrections or updates.

Appendix A: DRAWINGS

Appendix B: COMMUNITY CONSULTATION STRATEGY