PENRITH STADIUM REDEVELOPMENT

Construction Waste Management Sub Plan

Environmental Management Plan

PSR-JHG-PLN-PRM-99-0021

SSD-68292713

Rev	Date	Prepared By	Reviewed By	Approved By	Remarks
00	28/02/2025	Tristan Rodrigues	Cameron Newling	Milan Males	Issued for Construction

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1 Revisions and Distribution

1.1 Revisions

Draft issues of this document are identified as Revision 1, 2, 3 etc. Upon initial issue (generally Contract Award) this will be changed to an alphabetical revision. Revisions will continue at Revision A, B, C etc.

Rev	Date	Prepared By [Name & Signature]	Reviewed By [Name & Signature]	Approved By	Remarks
00	28/02/2025	Tristan Rodrigues	Cameron Newling	Milan Males	Issued for Construction

1.2 Distribution List

Client's Representative	Via Aconex
Project Manager	Via Aconex
Project Site Manager	Via Aconex
HSEQ Manager	Via Aconex
Project Environment Representative	Via Aconex

The controlled master version of this document is available for distribution as appropriate and maintained on the document management system being used on the project. All circulated hard copies of this document are deemed to be uncontrolled.

1.3 Development Consent Conditions

Consent Condition Requirement		Reference
B21	The Construction Waste Management Sub-Plan (CWMSP) must address, but not be limited to, the following:	This Plan
a	The recording of quantities, classification (for materials to be removed) and validation (for materials to remain) of each type of waste generated during construction and proposed use for materials to remain;	Section 10
b	Information regarding the recycling and disposal locations, and	Section 11
c	Confirmation of the contamination status of the development areas of the site based on the validation results.	Section 3.3
B34	Operational Waste Storage and Processing Prior to the commencement of construction of waste storage and processing areas, the Applicant must obtain agreement from Council for the design of the operational waste storage area (where waste removal will be undertaken by Council). Where waste removal will be undertaken by a third party, evidence must be provided to the Certifier that the design of the operational waste storage area: (a) is constructed using solid non-combustible materials; (b) is designed to ensure the door/gate to the waste storage area is vermin proof and can be openable from both inside and outside the storage area at all times; (c) includes a hot and cold-water supply with a hose through a centralised mixing valve; (d) is naturally ventilated or an air handling exhaust system must be in place; and (e) includes signage to clearly describe the types of materials that can be deposited into recycling bins and general garbage bins.	Section 4.3
C30	Waste Storage and processing All waste generated during construction must be secured and maintained within designated water storage areas at all times and must not leave the site onto neighbouring public or private properties.	Section 6
C31	All waste generated during construction must be assessed, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA,2014)	Section 6
C32	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.	Section 6
C33	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.	Section 8
C34	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.	Section 6

2 Definitions

Term/ abbreviation	Definition
Principal	Infrastructure NSW
Principal's Representative	Bruno Zinghini
CoA	Conditions of Approval
PSR	Penrith Stadium Redevelopment
DPHI	Department of Planning, Housing and Infrastructure
ECP	Environmental Control Plan – defines management measures for a specific environmental aspect
CEMP	Construction Environmental Management Plan – this document
EMS	John Holland's Environmental Management System
OEM	Operations Environment Manager
WH&S	Workplace Health and Safety
SQE	Safety, Quality and Environment
Subcontractor	Any company, body or person who is contracted to John Holland for the purpose of supplying plant and/or services
System Element	The administrative activities that need to be implemented and controlled to ensure that the product or service meets environmental requirements
The Project	Penrith Stadium Redevelopment
CTPMP	Construction Traffic Pedestrian Management Plan
TRA	Task Risk Assessment – Specific risk assessment based on day-to-day tasks, facilitated by supervision and involving consultation with workforce before task is undertaken. Signed off by all people undertaking the task.
WRA	Workplace Risk Assessment – High-level strategic risk assessment conducted on workplace and broken down into work components for the purpose of identifying system, training and legislative requirements, and identifying the need for further detailed planning and risk assessment activities. The WRA also fulfils the function of an aspects and impacts register.

3 Scope of the Waste Management Plan

EMS reference
Environment Management Manual JH-MAN-ENV-001

The Penrith Stadium Redevelopment is an Infrastructure NSW initiative on behalf of the Office of Sport to refurbish the existing BlueBet Stadium. The refurbishment aims to deliver a multi-use contemporary rectangular venue that meets the needs of patrons, hirers and other users for rugby, football, concerts and other new forms of entertainment.

The new stadium will consist of increased seating (capacity of 25,000) as well as closer seating to improve the game day experience for fans and players alike.

The Penrith Stadium works include detailed design and construction of the new stadium and precinct area. The scope of works of this Project includes:

- Demolition of the existing West and East Grandstands
- Construction of a new Western stand including improved:
  a) Player facilities catering for both male and female sporting teams
  b) Amenities for spectators
  c) Food and beverage provision
  d) Increased Grandstand seating
  e) Media facilities
- Construction of a new Eastern stand including:
  a) Amenities for spectators
  b) Food and beverage provisions
  c) Increased Grandstand seating
- Refurbished Western playing field
  a) A dedicated player warm up space
  b) An activation hub at the western entry to the stadium
  c) Temporary car park
  d) Community space for non-event day recreation
- Public Domain works – new soft and hard landscaping works
- The Northern and Southern Hills will remain insitu, however improvements will be made to existing amenities as well as regrading of hills.

This Environmental Management Plan (EMP) Sub-Plan specifies the requirements of the John Holland Environmental Management System (EMS) (which is certified to ISO AS/NZS14001) that the Penrith Stadium Redevelopment Project (the Project) will use to enhance its environmental performance. Consistent with John Holland Environment Policy, the intended outcomes of this EMP include:

- enhancement of environmental performance on the Project;
- fulfilment of the Project's compliance obligations; and
- achievement of the Project's environmental objectives.

This Sub Plan (Waste Management Plan) enables the Project to manage its environmental responsibilities in a systematic manner and contribute to the environmental pillar of sustainability. This Waste Management Plan is applicable to the Project and applies to the environmental aspects of the Project's activities, products and services that the Project determines it can either control or influence considering a life cycle perspective.

This Waste Management Plan is applicable to all construction phase works associated with the Penrith Stadium Redevelopment Project (John Holland and subcontractors).

3.1 Objectives

The objectives of this Waste Management Plan are to:

- Prevent environmental impacts from waste generated during all phases of the Project.
- Correctly manage and dispose of waste through identification of waste types and ensuring appropriate segregation, storage and disposal
- Create better waste outcomes through minimising waste and maximising re-use and recycling opportunities.
- Ensure a clean and tidy workplace that minimises environmental, quality and safety risks.

3.2 Project Location

The site is located at on the existing stadium grounds (BlueBet Stadium) between the bounds of Mulgoa Rd, Ransley St and Station St located within the Penrith City Council locality. The site is adjacent to Howell Oval, located south of the stadium.

Other neighbouring structures include the Penrith Panthers Rugby Leagues Club, Western Sydney Conference Centre, Pullman Sydney Penrith and other small businesses.

The site is legally described as Lot 1 DP1147219 and part Lot 2 DP 1147219.

Figure 1: 1. Site boundaries and structures: 2. Howell Oval 3.Penrith Panther Rugby League Club 4. Western Sydney Conference Centre 5. Pullmans Sydney

3.3 Contamination Status

Penrith Stadium soil conditions were assessed by JK Environments (JKE, 2024) (Ref: E36316PTrpt3). through a Detailed Site Investigation (DSI) where fills material was uncovered, asbestos was found in fill soil in one area of the western portion of the site. Previous investigations have not triggered the need for remediation however due to the fragment of asbestos, a remediation action plan (RAP) was prepared by JKE. A data gap investigation is required to be carried out post demolition of the stands and preferred remedial options included:

- Excavation and off-site disposal to a licensed landfill facility; and
- A combination of cap and containment, and long-term management

It is concluded that the site can be made suitable for ongoing use as a stadium subject to the implementation of the RAP.

4 Performance

4.1 Project general context

- No environmental incidents resulting from waste management.
- Recycling and re-use of waste wherever practicable.
- Segregation of waste streams for recycling (either on site or off site)
- Quantity of waste delivered to landfill minimised wherever practicable.
- Hazardous and non-hazardous chemicals and substances used during all phases of the Project will be selected and managed to minimise the potential adverse environmental impacts associated with their disposal.
- Waste generation is minimised through reduce, reuse and recycle initiatives
- No litter to be observed across work sites.
- Waste transport vehicles use only the approved waste transport route.
- All waste generated on site is appropriately stored prior to disposal.
- No waste disposed at unapproved/non-licensed facilities.

4.2 Targets

- Construction waste diverted from landfill and either reused or recycled: 90%
- Green Star Buildings v1 credit – Responsible Construction, Credit Achievement
- Number of waste related incidents: Nil
-

4.3 Operational Waste Storage and Processing

As per Condition of Approval B34:

Prior to the commencement of construction of waste storage and processing areas, the Applicant must obtain agreement from Council for the design of the operational waste storage area (where waste removal will be undertaken by Council). Where waste removal will be undertaken by a third party, evidence must be provided to the Certifier that the design of the operational waste storage area:

(a) is constructed using solid non-combustible materials;

(b) is designed to ensure the door/gate to the waste storage area is vermin proof and can be openable from both inside and outside the storage area at all times;

(c) includes a hot and cold-water supply with a hose through a centralised mixing valve;

(d) is naturally ventilated or an air handling exhaust system must be in place; and
(e) includes signage to clearly describe the types of materials that can be deposited into recycling bins and general garbage bins.

The design of Penrith Stadium operational waste storage areas will be developed in consultation with designers to ensure the above conditions are met.

5 Legislation and Guidance Documentation

5.1 State legislation

- Protection of the Environment Operations Act 1997 (NSW)
- Protection of the Environment Operations (Waste) Regulation 2014 (NSW)
- Waste Avoidance and Resource Recovery Act, 2001 (NSW)
- Environmentally Hazardous Chemicals Act 1985 (NSW)

5.2 Standards / Codes

- Australian Dangerous Goods Code,
- Waste Classification Guidelines: Part 1 Classifying Waste (DECCW 2009).
- Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Wastes (DEC 2004).
- Guidelines on Resource Recovery Exemptions (Land Application of Waste Materials as Fill) (DECCW, 2011).

5.3 Supporting Documentation

- Construction Environmental Management Plan (CEMP)
- Air Quality Management Plan
- Sustainability Management Plan
- Site Environmental plan (SEP)
- John Holland Hazardous Chemical Management Procedure
- John Holland Resource Use Reporting Procedure (JH-MPR-ENV-002)
- John Holland Incident and Event Management Procedure (JH-MPR-SQE-010)
- Unexpected Finds protocol for contamination (Appendix 5 of the CEMP)
- John Holland Global Mandatory Requirements #9 –Environmental Management (GMR#9)
- State Significant Development Consent SSD-6829713.
- Penrith Stadium Refurbishment Environmental Impact Assessment prepared for INSW dated 21st May 2024.
- Storing and Handling Liquids: Environmental Protection – Participants Manual (NSW Department of Environment and Climate Change (DECC) 2007).
- JKEnvironments E36316PTrpt7-RAP)

6 Waste Management Action Planning

Inductions, Training and Awareness	Staff Responsible	When
Site inductions will include the following specific components for waste management: ▪ Identification of waste types, including non-hazardous waste, hazardous waste and Listed/Controlled/Regulated wastes. ▪ Key requirements for handling, transportation and storage, including segregation of wastes. ▪ Waste storage facilities on the Site.	PER, Safety Advisor/Manager	Project delivery
Personnel who routinely handle hazardous chemicals or hazardous or Listed/Controlled/Regulated waste (e.g. refuelling personnel, pump operators, mechanics and stores personnel) will receive training in handling, transporting and storing hazardous chemicals or hazardous Listed/Controlled/Regulated wastes; in reporting and documentation requirements; and in spill clean-up techniques and practice.	PER, Project Safety Advisor/Manager, First Aiders	Project delivery
Communicate best waste minimisation practices with site personnel to ensure employees are aware of project waste procedures, the need to maintain a clean worksite and reduce risk of environmental harm resulting from inappropriate waste handling practices.	PER, Safety Advisor/Manager	At induction, prestart/toolboxes when appropriate

Waste Avoidance and Reduction	Staff Responsible	When
A plan, describing methods to minimise waste and maximise efficient use of resources must be implemented and monitored.	PER, Engineers	Workplace Planning
All workplaces must recycle construction and demolition waste, paper, cardboard, electronics, printer cartridges, fluorescent lights, glass, plastics and batteries, where recycling services are available.	All personnel	Project delivery
Waste minimisation measures will be included in tendering, subcontracting and procurement processes wherever practicable.	PER, Engineers, Supervisors	Workplace Planning
All waste, wherever practicable will be either segregated on-site or comingled and separated off-site. Waste will then be reused, recycled or disposed of in an appropriate manner at licensed facilities. Waste segregation measures will consider separate bins for each waste stream. ▪ General waste (construction/demolition and other) ▪ Concrete/masonry waste ▪ Metals ▪ Paper, cardboard etc. ▪ Plastics ▪ Glass ▪ Hazardous wastes ▪ Special waste (asbestos)	All personnel	Project delivery
Recycling bins will be provided in office and crib rooms. (where practicable)	PER, Engineers	Project Delivery
For building materials imported to site that have excessive packaging, efforts must be undertaken to negotiate alternative packaging arrangements with the supplier.	PER, Contracts	Workplace planning, project delivery
Recycling skips (co-mingled or otherwise) will be provided within the vicinity of on-site works.	PER, Engineers, Supervisors	Project delivery

General Waste Handling, Housekeeping and Storage	Staff Responsible	When
Details of the proposed waste haulage truck routes are documented within the CTMP and are to be followed by trucks transporting construction waste material from the site. The CTMP has been developed in consultation with the Sydney Coordination Office and Transport Management Centre prior to the commencement of the removal of any waste material from the site.	PER, Safety Advisor/Manager, Community and Stakeholder Manager	Prior to project commencement
All trucks transporting construction waste material from the Project site must follow thee approved routes documented within the CTMP throughout Project Delivery.	PER, Safety Advisor/Manager, Community and Stakeholder Manager	Project delivery
All waste trucks leaving the site are to have their loads secured and covered where applicable. This includes all skip and hook bins (or other waste receptacles).	All personnel	Project delivery
Waste must be secured and maintained within designated waste storage areas within the site at all times until picked up by a waste disposal contractor. These areas must be clearly defined and well signed.	All personnel	Project delivery
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.	All personnel	Project delivery
Concrete waste and rinse water are not to be disposed of on the site and will be prevented from entering any natural or artificial watercourse or waterbody. Designated concrete washout areas to be established	All personnel	Project delivery
The waste materials stockpiled for disposal, re-use or recycling must be appropriately classified and managed to ensure waste streams reach their intended final destinations, being premises legally able to accept those wastes and materials for re-use or recycling.	All personnel	Project delivery
Ensure provision of correctly signed bins or skips for collection and storage of all wastes. Locations and bin type shall be determined by the following: ▪ Type of waste; ▪ Proximity to watercourses and drainage lines; ▪ Proximity to sensitive or protected flora and fauna; ▪ Accessibility for removal; ▪ Protection from weather; ▪ Proximity to work areas; and ▪ Available space. Locations will be marked on the Site Environmental Plan (SEP)	PER, Supervisors, Safety Advisor/Manager	Project delivery
If Spoil is to be reused off-site, the following must be provided prior to transporting the material: ▪ Name of waste subcontractor ▪ Address of source destination ▪ Material to be supplied (e.g. VENM/ENM) ▪ Evidence that facility is legally able to accept the waste (such as DA, exemption or EPL). The consent must be viewed and confirmed as covering all intended material.	PER, Safety Advisor/Manager, Supervisors Environmental Consultant	Project delivery

General Waste Handling, Housekeeping and Storage	Staff Responsible	When
Signed Section 143 Notice under the POEO Act 1997. A spoil permit must be completed prior to the removal of the spoil. All exported material must meet the criteria in Table 7-1 and 7-2 of the Remediation Action Plan. All truck movements will be recorded on tracking sheets.		
Waste bins and skips will be provided for all office and crib facilities. Wastes will be separated into recyclable waste, non-recyclable waste and Listed/Controlled/Regulated waste.	All personnel	Project delivery
Waste skips/bins will meet the following provisions: ▪ Adequate number for waste segregation (recycling, re-use and disposal) and sufficient volume; ▪ Labelled to clearly identify the contents; ▪ Appropriate for the waste being contained – be compatible, leak-proof and fit for purpose; ▪ Be accessible and appropriately located; ▪ Be covered (where necessary) to prevent ingress of rain and prevent animals from entering.	PER, Safety Advisor/Manager, Engineers, Supervisors	Project delivery
Sanitary waste facilities will be provided for all female ablutions.	All personnel	Project delivery
Waste will be removed by an appropriately licensed waste subcontractor and taken to an appropriately licensed recovery, recycling or disposal facility. The subcontractor is to provide monthly reports detailing: ▪ Date(s) of waste collection ▪ Description of waste ▪ Cross reference to relevant waste transport documentation ▪ Quantity of waste collected ▪ Origin of waste ▪ Destination of waste (for listed/controlled/regulated wastes) ▪ Intended fate of waste, e.g. re-use, recycling or disposal. Refer: JH-MPR-ENV-002 Resource Use Reporting	PER, Safety Advisor/Manager	Project delivery
The following licence records are to be obtained from any licensed waste subcontractor engaged, prior to transporting any waste from site: ▪ Name of waste subcontractor ▪ Address ▪ Waste streams to be handled, transported, stored and/or disposed of by the waste subcontractor ▪ EPL number (EPL must cover all intended waste streams each contractor intends to transport) ▪ Landfill(s) used by waste subcontractor ▪ Landfill(s) EPL number	PER / waste subcontractor(s)	Prior to commencement of works, project delivery
No waste is to be burned or buried on Site.	All personnel	Project delivery
Upon Project completion all temporary materials and wastes will be removed from site unless otherwise instructed.	Safety Manager / Project Manager	Project completion
Spoil import permits will be completed to ensure only VENM, ENM or other material approved in writing by the EPA are imported to site. All imported material must meet the criteria in Table 7-4 of the Remediation Action Plan.	PER Site Auditor Site Manager	Project delivery

General Waste Handling, Housekeeping and Storage	Staff Responsible	When
The site auditor will also approve all material being imported. Material brought to site must be verified prior to acceptance with dockets supplied during material movement. All truck movements will be recorded on tracking sheets.	Environmental Consultant	

Listed/Controlled/Regulated/Hazardous Waste Management	Staff Responsible	When
Listed/controlled/regulated/hazardous waste which will require segregation typically include, but are not limited to: ▪ Waste oil ▪ Oil filters ▪ Grease ▪ Coolant ▪ Solvents ▪ Oily-water mixtures ▪ Empty hydrocarbon drums ▪ Absorbent materials contaminated with hydrocarbons ▪ Contaminated soil ▪ Tyres ▪ Sanitary and clinical wastes ▪ Sewage ▪ Special waste (asbestos)	All personnel	Project delivery
Dedicated waste receptacles suitable for storage and segregation of Listed/controlled/regulated/hazardous wastes will be provided as necessary. Containers and storage areas will comply with storage requirements as per SDS and relevant Australian Standards. Refer Storage and Control of Hazardous Chemicals (refer to Hazardous Chemical Management Procedure) and Hazardous Chemical Disposal Requirements (refer to Hazardous Chemical Management Procedure).	PER, Safety Advisor/Manager	Project delivery
All listed/controlled/regulated/hazardous waste removed from the site, both solid and liquid wastes, must be removed by a licenced waste contractor who holds a current licence to transport such waste under the respective provisions of the POEO Act and Regulations and disposed of at facility licensed to receive that waste. EPL's for both the receiving facility and the transport company must be obtained prior to any hazardous waste being removed from site. These licenses must be held on site. Records for all listed/controlled/regulated/hazardous waste must be maintained by John Holland, the Transporter and Receiver of wastes. Waste transport and disposal documentation to be provided by the licensed waste contractor for each load (within 14 days) If waste transport involves movement across state jurisdiction, consignment authorisation must be obtained from an agency (or designated facility) to move controlled waste into the jurisdiction.	PER, Safety Advisor/Manager	Project delivery
Soil contaminated with hydrocarbons will be managed as Listed/Controlled/Regulated waste. Depending on the size of contamination appropriate protection, storage, testing and remediation are to occur.	PER, Safety Advisor/Manager	Project delivery
All listed/controlled/regulated/hazardous wastes must be stored appropriately such that there is no stormwater runoff does not come into contact with the wastes.	PER, Safety Advisor/Manager	Project delivery

Listed/Controlled/Regulated/Hazardous Waste Management	Staff Responsible	When
A detailed unexpected finds protocol for contamination (including asbestos containing material) and associated communications procedure must be developed and followed at all times. The Plan has been developed to be consistent with the Unexpected Contamination Finds Protocol Ref: E36316PTrpt7 - RAP and including a chain of responsibilities for undertaking the unexpected finds protocol	PER, Safety Advisor/Manager, Community and Stakeholder Manager	Project delivery
Where any hazardous materials are required to be removed from site, suitable measures must be implemented in consultation with the contamination consultant (where required) to contain and control the emission of fibres to the air (if potential exists). This may include wetting down surfaces.	PER, Safety Advisor/Manager	Project delivery
All waste generated during construction must be assessed, classified and managed in accordance with the Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014).	PER	Project delivery
All contaminated and non-contaminated material to be excavated onsite shall be managed in the following manner. Where disposal is required off-site, material is to be managed in accordance with NSW Waste Classification Guidelines (NSW EPA, 2014). Any material that contains asbestos would be classified as Special Waste – Asbestos if being removed from site. Special Waste Asbestos is to be tracked with NSW EPA Waste Locate to comply with clause 79 of the Protection of the Environment Operations (Waste) Regulation 2014. Appropriate controls to mitigate emission of fibres to the air will be implemented in accordance with the Asbestos Management Plan	PD / SM / PER	At start of works and throughout the works

7 Monitoring

Monitoring Required	Staff Responsible	When
Waste management will be monitored daily, with observations entered into daily diaries where necessary.	PER, Safety Advisor/Manager, Engineers, Supervisors	Daily
Waste management will be inspected as part of the Weekly Environmental Inspection Checklist, or HSE site inspection. Results of the weekly inspection will be entered into JHET.	PER, Safety Advisor/Manager, Engineers, Supervisors	Weekly
All waste storage's locations must be inspected to ensure that there is no risk of unplanned movement of waste around or off site via wind, water or other means.	PER, Safety Advisor/Manager	Project delivery
All waste vehicles entering and leaving site must have adequate truck GPS monitoring systems. The requirements for these monitoring systems to be installed in any engaged waste contractors' trucks must be included in their contracts and information supplied to John Holland if requested.	Commercial Manager	Prior to commencement of works, project delivery

8 Reporting

Reporting Required	Staff Responsible	When
All waste data will be tracked for the duration of the Project. The recorded information will include: ▪ Waste description and coding (if applicable) ▪ Date of pick-up of waste ▪ Cross referenced to relevant waste transport and facility receipt documentation ▪ Quantity of waste ▪ Origin of waste ▪ Destination of the waste including relevant EPL details ▪ Intended fate of the waste (Type of waste treatment – re-use, recycle or disposal) This data will be utilised to ensure John Holland recycling/reuse targets are achieved. Waste contractors and facilities must comply with *Green Star Construction and Demolition Waste Reporting Criteria*.	PER, contracts	Project delivery
Records of all waste quantities generated (including that reported by subcontractors) and any associated waste transport certificate documentation will be entered into Project Pack Web in accordance with JH-MPR-ENV-002 Resource Use Reporting.	PER	Project delivery
All material/waste tracking will also be required as part of the site audit process for the purposes of determining site suitability. Ensure appropriate tracking of internal fill/soil movements, removal off-site and importation to site is undertaken as required by the Remediation Action Plan for future reporting as part of the site validation	PER Site Auditor	Project delivery
All subcontractors will provide an Energy, Water and Waste Report in accordance with JH-MPR-ENV-002 Resource Use Reporting	PER, contracts	Project delivery
Details of field observations will be reported via the Weekly Environmental Inspection Checklist, and communicated to staff during pre-starts, toolbox and team meetings as appropriate.	PER, Safety Advisor/Manager	Project delivery
Complaints / incidents regarding waste will be reported immediately to the PER and/or Safety Advisor/Manager and Community and Stakeholder Manager.	All personnel	Following incident
The Project Manager shall be notified immediately of all incidents and valid complaints. Relevant John Holland procedures for incidents and complaints handling reporting shall be followed	PER, Safety Advisor/Manager, Community and Stakeholder Manager	Following incident, project delivery
Incident details will be entered into Soteria in accordance with the Incident and Event Management Procedure (JH-MPR-SQE-010)	PER, Safety Advisor/Manager	Following incident
John Holland Operational HSE Team is to be immediately informed of any incident that has caused or is likely to cause material harm to the environment and will advise on the notification of relevant regulators and stakeholders (As required by the Protection of the Environment Operations Act 1997).	PER, Safety Advisor/Manager, Community and Stakeholder Manager	Following incident

Any incident requiring regulator notification will be done so in accordance with SSD-6829713 Conditions of Approval and John Holland Incident Notification and Reporting Matrix (refer to Incident Management Procedure).	PER, Safety Advisor/Manager	Following incident
Summary of environmental performance to be provided in the monthly Project Safety/Quality/Environment Report (refer: Performance Statistics – Safety, Quality & Environment JH-MPR-SQE-009)	PER, Safety Advisor/Manager	Monthly

9 Corrective Action Plan

Problem	Suggested Corrective Action
Wastes incorrectly separated/segregated	▪ Inspect facilities for adequacy ▪ Notify and train personnel
No/inadequate collection	▪ Arrange for collection by approved/licensed waste contractor ▪ Segregate and reuse or recycle wastes wherever practicable
Reuse or recycling opportunity not recognised	▪ Train/re-train personnel ▪ Arrange for recycling collection by approved/licensed waste contractor
Unlicensed operator	▪ Confirm operator license/s are appropriate for the required service.
Incorrect disposal	▪ Confirm suitability of waste removal contractor. ▪ Confirm/inspect disposal facilities for suitability. ▪ Notify/train personnel. ▪ Notify site auditor and DPHI/EPA as applicable
Contamination of the Site	▪ Notify client, assess degree and real extent of contamination. ▪ Notify site auditor ▪ Manage in accordance with the RAP ▪ Prevent access to the area. ▪ Cover contamination to prevent exposure to rain. ▪ Remove contaminated material and remediate in accordance with Regulator/Client requirements.
Inaccurate records management	▪ Update records ▪ Improve reporting system ▪ Train personnel

10 Expected Waste Streams

Identified waste streams	Project activities likely to generate waste stream	Subcontractor obligations	Management of Waste Stream	Destination of Waste Streams	Estimated quantities for duration of Project
Concrete	Concrete pours (excess and washout)	Subcontractors to manage concrete waste at specific dedicated project washout area	Dedicated offsite concrete slurry/washout locations at concrete supplier facility/batch plant.	Off-site reuse by concrete supplier or recycling by waste subcontractor: Intended destination to be provided by successful concrete contractor.	800m3
Asphalt and masonry	Demolition and removal of existing car park and footpath areas	Subcontractors required to manage waste on-site using existing bins.	Segregated – dedicated asphalt and masonry bin.	Off-site recycling by waste subcontractor. Licensed Waste Contractor to be determined.	700m3
Wastewater (cutting, paint wash-out)	Painting wash out and brick saw activities	Subcontractors required to manage waste on-site utilising own bins and recycling system.	Segregated – dedicated masonry slurry/washout bin.	N/A – the system utilises a recycling/pumping system which produces no wastewater.	1200L
Metals	Steel fixing, stud wall construction, structural steel erection, roofing, miscellaneous metal works	Subcontractors required to manage waste on-site using existing bins.	Segregated – dedicated metals bin.	Off-site recycling by waste subcontractor. Licensed Waste Contractor to be determined.	800m3
General construction waste	Remaining waste on site.	Subcontractors required to manage waste on-site using existing bins.	Segregated – dedicated general construction waste bin.	Off-site recycling by waste subcontractor. Licensed Waste Contractor to be determined.	50m3
Spoil (contaminated/non-contaminated)	Excavation of utilities, drainage and bulk earthworks	Civil subcontractor required to stockpile, segregate and manage waste on-site to avoid cross-contamination and/or incorrect disposal.	Segregated	Off-site disposal by civil subcontractor to an appropriately licenced facility legally able to accept the waste or a valid development consent (where material is not contaminated).	17,000m3

Identified waste streams	Project activities likely to generate waste stream	Subcontractor obligations	Management of Waste Stream	Destination of Waste Streams	Estimated quantities for duration of Project
		Manage as per requirements in the RAP		Where material is trackable, an EPA licensed transporter to dispose at a landfill licensed to receive it.	
Contaminated / Hazardous Substances Waste (other than soil)	General chemical use including curing and jointing compounds, paint, adhesives and solvents; or waste arising from hydraulic spills/leaks	John Holland and subcontractors required to manage waste on-site using existing bins.	Segregated – dedicated contaminated/ hazardous substances waste bin.	Off-site recycling by waste subcontractor. Licensed Waste Contractor to be determined. Waste subcontractor will engage an EPA licensed transporter to dispose at a landfill licensed to receive it.	110L
Effluent	Ablution and toilet facilities	Pump out and disposal at licensed facility	Effluent storage tanks	Pump out and off-site disposal by civil subcontractor. Licensed Waste Contractor to be determined.	40,000L
Timber	Formwork from other temporary supports, pallets from building material deliveries	Subcontractors required to manage waste on-site using existing bins and storage locations	Segregated – dedicated timber bin.	Off-site recycling by waste subcontractor. Licensed Waste Contractor to be determined.	200m3
Paper and cardboard	Office facilities and packaging from deliveries	Subcontractors required to manage waste on-site using existing bins.	Segregated – dedicated paper and cardboard bin.	Off-site recycling by waste subcontractor. Licensed Waste Contractor to be determined.	50m3

11 Licenses

(to be updated when new facilities required)

Waste Contractor	Waste Facility(s)	Waste Facility License No.
H&R Hassarati	Concrete Recyclers (GROUP) PTY LTD	6664
	InfraBuild, Wetherill Park	6125
	Bingo Eastern Creek Recycling Ecology Park (& Landfill)	13426 20121