NEW GRAFTON CORRECTIONAL CENTRE PROJECT

WASTE
ENVIRONMENTAL CONTROL PLAN

DOCUMENT NO: JHG-NGCC-PLN-WMP-022

Recommended Documents to be Read in Conjunction

This management procedure should be read in conjunction with the Environmental Management Plan (JHG-NGCC-PLN-EMP-005), the Soil & Water ECP (JHG-NGCC-PLN-SWMP-0203) and the JH Hazardous Chemical Management Procedure.

Distribution

There are no restrictions on the distribution or circulation of this ECP within John Holland.

Revisions

Draft issues of this document shall be identified as Revision A, B, C etc. Upon initial issue (generally Contract Award) this shall be changed to a sequential number commencing at Revision 0. Revision numbers shall commence at Rev. 1, 2 etc.

DATE	REV	DETAILS	SECTION	PREPARED	REVIEWED	APPROVED
22/5/2017	A	Draft for Construction	All	A. Harrrington	T. Doyle	
09/06/2017	0	Issued for Construction	All	T.Doyle	M.Turner	D Magick
11/01/18	1	Issued for Construction – Updated for Stage 2 DA Condition	All	T. Doyle	M.Turner	P. Cassel

1.0 Scope

This Environmental Control Plan is applicable to all construction phase works associated with the New Grafton Correctional Centre (John Holland and subcontractors).

2.0 References

2.1 Legislation and Guidance Documentation

Federal Legislation	State legislation	Local Government Laws	Standards / Codes	Other Documentation
1. Environmental Protection and Biodiversity Conservation Act 1999	1. Protection of the Environment Operations Act 1997 (NSW) 2. Protection of the Environment Operations (Waste) Regulations 2005 (NSW) 3. Waste Avoidance and Resource Recovery Act, 2001 (NSW) 4. Environmentally Hazardous Chemicals Act 1985 (NSW)	n/a.	1. Waste Classification Guidelines: Part 1 Classifying Waste (DECCW, 2009) 2. Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Wastes (DEC, 2004) 3. Guidelines on Resource Recovery Exemptions (Land Application of Waste Materials as Fill) (DECCW, 2011).	1. Construction Environmental Management Plan (EMP) 2. Air Quality ECP 3. Site Environment Plan (SEP) 4. JH Hazardous Chemical Management Procedure 5. JH Safety Quality and Environment Risk Management Procedure 6. NGCC Environmental Impact Assessment (Concept Design and Stage 1) prepared by INSW dated August 2016 7. State Significant Development approval, SD_7413 8. Clarence Valley Council Rural Zones Development Control Plan

2.2 Definitions & Abbreviations

- INSW – Infrastructure NSW
- Northern Pathways (Project Co) - Client
- DPE - Department of Planning & Environment (consent authority)
- JH – John Holland
- NGCC – New Grafton Correctional Centre (the project)
- PD – Project Director
- SM – Site Manager / Super Intendant
- FM – Foreman / Supervisor
- PER – Project Environmental Representative
- WRA – Workplace Risk Assessment
- AMS – Activity Method Statement
- TRA – Task Risk Assessment
- SEP – Site Environmental Plan
- EMP – Environmental Management Plan
- ECP – Environmental Control Plan
- EPA – Environmental Protection Authority
- OEH – Office of Environment and Heritage

3.0 Waste Performance Criteria

3.1 General

1. Clear identification of all likely waste streams prior to construction activities.
2. Supply contracts include requirements to reduce packing wastes and acceptance of returned packaging.
3. Waste generation is minimised through reduce, reuse and recycling initiatives.
4. Segregation of waste streams for recycling (either on-site or off-site).
5. All wastes generated on site are appropriately stored prior to disposal.
6. No waste disposed to unapproved facilities.
7. Energy and water use related with waste handling, storage and disposal minimised.
8. No litter to be observed at work sites.

3.2 Objectives & Targets

Construction waste diverted from landfill and either reused or recycled:	**80%**	Number of Waste Related Incidents:	**Nil**

4.0 Waste Management

4.1 Actions

No	Actions Required	Staff Responsible	When
1.	Energy, water and waste reduction measures are to be implemented in the offices and site sheds and communicated in toolboxes. Initiatives may include, but should not be limited to; • Procurement of Australian made FSC or recycled office paper. • Recycling bins in site sheds. • Other initiatives as appropriate.	PER	At site establishment and when opportunities are identified
2.	Engage an appropriately licensed waste contractor to manage the identified waste streams. Contractor to provide monthly reports detailing; • Date(s) of waste pickup • Description of waste • Cross reference to relevant waste transport documentation • Quantity of waste • Origin of the waste • Destination of the waste (for regulated wastes) • Intended fate of the waste, e.g. re-use, recycling, or disposal	SM / PER / Waste subcontractor(s)	Prior to construction and at all times thereafter

3.	The following licence records are to be obtained from any waste subcontractor engaged: • Name of waste subcontractor • Address • Waste streams to be handled, transported, stored and/or disposed of by the waste subcontractor • EPL number • Landfill(s) used by waste subcontractor • Landfill(s) EPL number	PER / waste subcontractor(s)	Prior to commencement of works
4.	All regulated 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 regulated waste under the respective provisions of the POEO Act and Regulations. • Copy of licences to be held on site. • Records for all regulated waste must be maintained by the Generator, Transporter and Receiver of wastes. • On disposal, waste disposal documentation to be provided by the licensed waste contractor (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 / waste subcontractor(s)	As required
5.	Any asbestos waste to be managed by an asbestos licensed contractor only. See Unexpected Finds Procedure for further detail on management of Asbestos.	PM / All staff	At all times
6.	Communicate best waste minimisation practices with site personnel to ensure employees are aware of project waste procedures and the need to maintain a clean worksite.	SM / FM / PER	At induction and at pre-starts/toolboxes when appropriate
7.	Implement appropriate waste management practices to ensure that the site is maintained in a clean and tidy state with regard to litter and materials storage. Measures may include; • Regular inspections, • Stop work, • Area cleans, and • Pre-start checks. All work areas to be tidied and free of litter each day.	SM / PER	At all times
8.	No wastes shall be burnt or buried on site.	All staff	At all times
9.	Ensure provision of correctly signed bins or skips for collection and storage of all wastes. Locations and bin type shall be determined taking into account 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; and • Available space.	SM / FM / PER	At all times
10.	Waste storage facilities and stockpiles are to be located away from existing drainage lines and have appropriate bunding and drainage mechanisms for contents.	SM / PER	At all times

11.	Waste stations will be established at each of the Male Minimium, Female Maximum and Male Maximum areas. These locations of waste bins/skips within the waste stations are indicated on the Site Environment Plan (SEP) and revised as required.	PER	At all times
12.	Contaminated wastes, (e.g. oily rags, used spill kit materials, etc.) to be stored appropriately (i.e. hazardous waste bags, covered and sealed bins) such that storm water runoff does not come into contact with the wastes and disposed of accordingly.	SM / PER	At all times
13.	Hydrocarbon contaminated soil and any other hazardous waste to be managed and disposed of according to its waste classification and relevant legislative requirements. Depending on size of contamination appropriate protection, storage, testing, and remediation to subsequently occur. All hazardous material will be disposed of at a licensed facility (Grafton Regional Landfill) and in accordance with the Project Environment Protection Licence EPL # 20960.	SM / PER	At all times
14.	Material dropped on land and/or in water shall be recovered immediately where possible. If not immediately possible (due to safety or other concerns) a suitable method of recovery should be identified and implemented as soon as possible. If required, methods of recovery shall be discussed on a case by case basis with the SM and PER.	SM / PER	At all times
15.	At completion of project all temporary works and wastes must be removed from site.	SM	End of Project
16.	All waste will be trucked via designated truck routes as per the Traffic and Pedestrian Management Plan which is being prepared in consultation with the Council and RMS.	SM	At all times

4.2 Monitoring

No	Monitoring Required	Staff Responsible	When
1.	Wastes shall be generally monitored on a daily basis to ensure that any materials which may cause land and/or water contamination or create odour problems are removed from the site in an appropriate manner.	FM	Daily
2.	Regular inspection of waste management processes to be record on the Enviro Inspection Checklist	PER/SM	Weekly
3.	Open drains to be visually checked and cleaned of litter and waste materials regularly and following rain events. Record of inspection to be included on the Enviro Inspection Checklist.	FM / PER	Weekly and following rain events
4.	Ensure that chain of custody records for all regulated wastes removed from site are created / received and attach to respective records in the Project Pack Web.	PER	For project duration
5.	A waste register shall be maintained for the duration of the project. The register shall include the following details: • Waste description and coding (if applicable); • Date of pickup of waste • Cross reference to relevant waste transport documentation • Quantity of waste • Origin of the waste • Destination of the waste (for regulated wastes) • Intended fate of the waste, e.g. type of waste treatment, re-use, recycle, or disposal	PER	For project duration

4.3 Reporting

No	Reporting Required	Staff Responsible	When

1.	Details of field observations shall be reported via the Enviro Inspection Checklist, and communicated to all staff during pre-starts, toolbox and team meetings.	PER/SM	All times
2.	All complaints / incidents regarding waste shall be reported immediately to the PER.	All Staff	Following incident
3.	Waste subcontractor to provide information detailed in action items 3.1.2, 3.1.3 and 3.1.4 within the requested timeframe.	Subcontractor	Throughout construction
4.	All waste volumes recorded for the project will be recorded and tracked in Project Pack Web. This data will be utilised to ensure JH recycling/reuse targets are being achieved as per the relevant requirements.	PER	Throughout construction
5.	The Project Director shall be notified immediately of all incidents and valid complaints. Relevant JH procedures for incidents and complaints handling reporting shall be followed.	PER	Following receipt of incident/complaint
6.	JH 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)*.	PD / PER	Following incident
7.	Where an significant incident, likely or with the potential to cause harm to the environment occurs, due to waste management, an investigation will take place, directed by a JH operations team member. Any and all internal and/or external person to JH will be required to participate in the investigation process as required.	JH Operations Team	As required
8.	The JH Project Director shall notify the client of all significant incidents and valid complaints, verbally within 2 hours, and in writing within 24 hours.	PD / PER	Verbally within 2 hours, and in writing within 24 hours
9.	Immediately report the details of any waste removed from site and not disposed of at a lawful facility	PM / PER	Following incident
10.	In accordance with the Project Approval (SSD_7413), condition C9, JH shall make available to the public on its website, regular reporting on the environmental performance of the development, in accordance with the reporting arrangements in any plans approved under the conditions of the consent. The information shall be kept up to date.	PD	Throughout construction
11.	A waste summary report to be provided at the completion of the Project to summarise the total amount of waste generated, how it was re-used/recycled and indicating the total percentage of the waste diverted from landfill.	PM / PER	Completion of Project
12.	Capture and report NGER data on a monthly basis using the JH Subcontract Energy, Water and Waste Report (JH-FRM-ENV-002-01).	PER	Monthly

5.0 Suggested Corrective Actions

Risk Example	Suggested Corrective Action
Environmental harm by waste or litter spill	• Spill kits to be appropriately situated near waste/hazardous material activities. • Waste spills will be cordoned off and contained immediately to prevent further contamination or spread. • Waste spills are not to be cleaned up by hosing or sweeping materials. • An incident report will be completed by the PER to investigate the cause of the waste spill. • Implement further measures to prevent such an occurrence from reoccurring. • Refer individual activity/task risk assessments for additional controls.
Waste disposed at an unlicensed facility	• Waste contract to include licencing requirements. • Raise a Non-conformance report against the subcontractor and identify system deficiencies allowing the NCR to have occurred. • Implement process to address system deficiencies to prevent further occurrences.

6.0 Project Waste Streams				
Identified Waste Streams	**Project Activities likely to generate waste stream**	**Subcontractor Obligations**	**Management of Waste Stream**	**Destination of Waste Streams**
Concrete	Concrete pours (excess and washout)	Where concrete volumes exceed the capability of on-site facilities, subcontractors to manage waste off-site at their own facility.	Segregated – dedicated concrete slurry/washout bunds or bins.	On-site reuse (where appropriate); or off-site recycling by waste subcontractor: Licensed Waste Contractor to be determined.
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.
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 waste water.
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.
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.
General Solid Waste	General soil, excavated from site for disposal to landfill.	Civil subcontractor required to stockpile and manage waste on-site.	Segregated	Off-site disposal by civil subcontractor. Licensed Waste Contractor to be determined. Civil subcontractor will engage an EPA licensed transporter to dispose at a landfill licensed to receive it.
			Segregated	Off-site recycling by civil subcontractor. Licensed Waste Contractor to be determined. Civil subcontractor will engage an EPA licensed transporter to dispose at a recycling facility licensed to receive it.

Contaminated soils	Removal of contaminated soils identified while excavating site	Civil subcontractor required to stockpile and manage waste on-site.	Segregated	Off-site disposal by civil subcontractor. Licensed Waste Contractor to be determined. Civil subcontractor will engage 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.
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.
Timber	Formwork from other temporary supports	Subcontractors required to manage waste on-site using existing bins.	Segregated – dedicated timber bin.	Off-site recycling by waste subcontractor. Licensed Waste Contractor to be determined.
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.

7.0 Licenses			
Waste Contractor	**License No.**	**Landfill(s) Used**	**Landfill License No.**
JR Richards	EPL NO. 7431	Coffs Harbour Landfill Clarence Valley Landfill	EPL No. 5880 EPL No. 7186