



NEW GRAFTON CORRECTIONAL CENTRE PROJECT



CONCRETE BATCHING PLANT MANAGEMENT PLAN

DOCUMENT NO: JHG-NGCC-PLN-CBPMP-001

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-023), Waste Management Plan (JHG-NGCC-PLN-WMP-022) and JH Hazardous Chemical Management Procedure and the operation specific Concrete Batch Plan Environmental Management Plan prepared by the operators Hanson.

Distribution

There are no restrictions on the distribution or circulation of this Plan 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
21/12/17	A	Draft for Construction	All	T Doyle		
09/01/18	0	Issued for Construction	3.2	L Lawler	T Doyle / M Turner	P Cassel



1.0 Scope and Project Approvals

This Concrete Batching Plant Management Plan is applicable to the works associated with Stage 2 Project approvals of the New Grafton Correctional Centre. This is a requirement of Conditional Approval SSD 8368.

The Project proposes the establishment of one concrete batching plant. This will require the following plant and equipment:

- Two x Mobile batch plants
- Two x Loaders
- Batch huts
- Crib rooms
- Toilets
- 5 x agitator trucks
- Material storage areas (cementitious and aggregate)

Water supply will initially be via water trucked in. At later stages water will be via mains supply. Partial re-use of process water is also proposed.

The batch plant will be powered by generators.

It is estimated that approximately 50,000m³ of concrete will be produced for the life of operations.

Hazardous goods onsite will be Diesel Fuel and Cement products such as Flyash and GP Cement. Additionally admixtures for concrete batching that could include the following;

- Master AIR
- Masterglenium
- Master Poz

2.0 Objectives

The objectives of this Concrete Batching Plant Management Plan are to:

- Address the relevant conditions of planning approval SSD8368;
- Identify potential environmental impacts of the concrete batching plant;
- Detail environmental controls to minimise impacts of the establishment and operation of the plant;

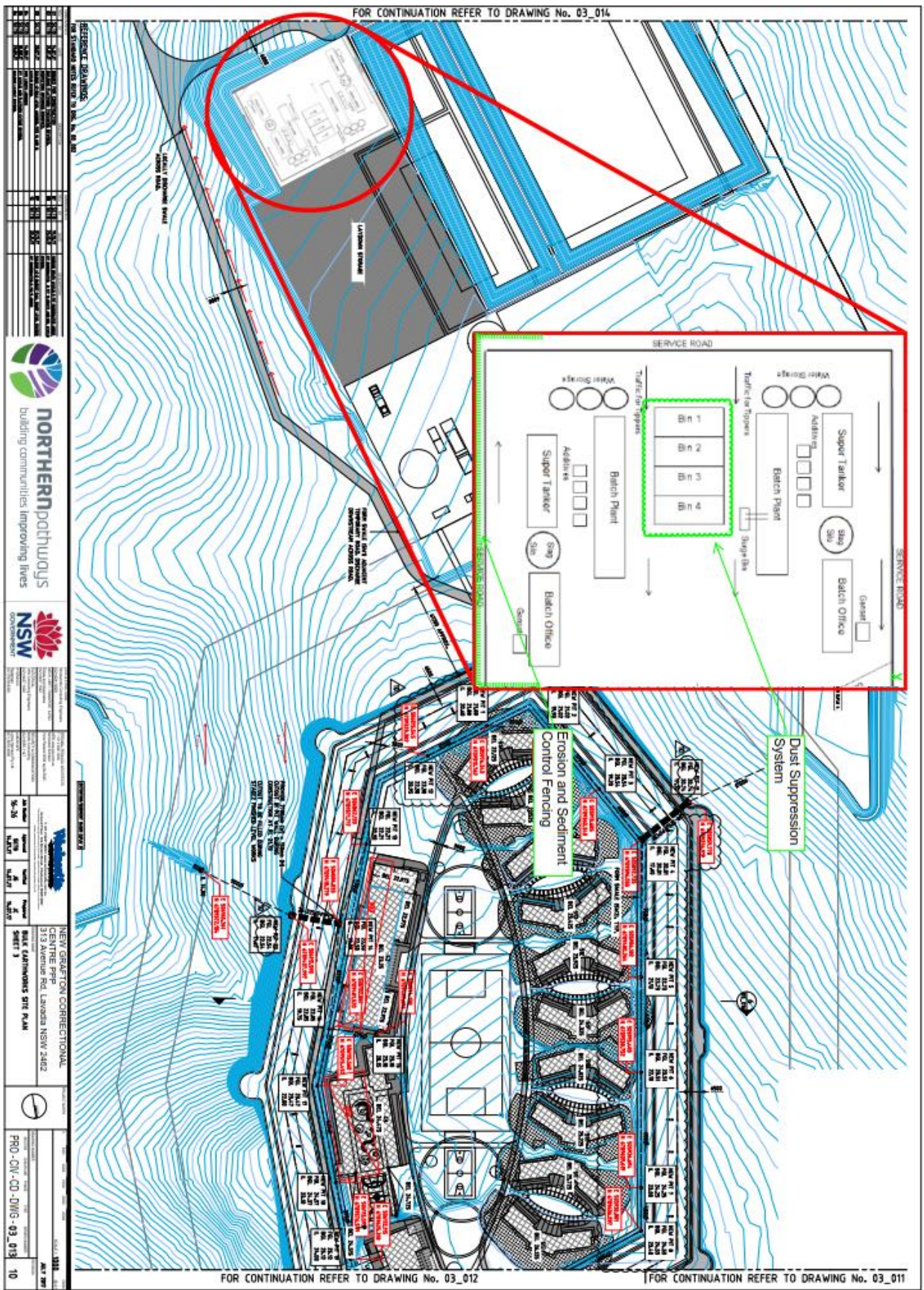
3.0 Project Details:

3.1 Performance Criteria:

1. Plant operations to occur within defined noise, air and water quality limits
2. Any community complaints addressed within 48 hours
3. Waste management addressed as per Project Waste Management Plan.



3.2 Site Layout Plan





3.3 Potential Environmental Impacts

- Impacts upon air quality through creation of dust
- Increases in local noise levels due to operation of plant
- Water quality impacts (increases in alkalinity) as a result of wastewater runoff
- Increases in local traffic
- Production of waste including wastewater and concrete

5.0 Air Quality & Visual Amenity Management

5.1 Actions

Air Quality		Staff Responsible	When
	Batch plants set up on hardstand to reduce dust.	JH	Prior to establishment
	During the operation, all reasonable and feasible measures will be implemented to minimise dust generation. This will include: <ul style="list-style-type: none"> • Use of sprinkler systems as dust suppression on stockpiles and exposed areas • Use of water carts on trafficable areas • Reuse of process water for sprinkler systems • Filters on silos • Air tight connections and valve systems 	Hanson	At all times
	Monitoring of dust levels – monitoring points are set up at project boundaries to monitor dust. These are checked daily to ensure project activities are within licensed limits.	PER	Monthly while operating
	Visual monitoring of dust levels	Hanson/Site Supervisor	At all times
	Weekly environmental inspections to include assessment of dust suppression techniques	PER	Weekly
	Implementation of techniques, where identified by the results of monitoring, as detailed with project Air Quality Management Plan	PER	At all times
	Locate plant distant to identified sensitive receivers.	JH	Site establishment
	A stabilised site entry / egress point shall be established for the duration of the works.	PER	Site establishment



	Public roads adjacent to site entry / egress to be kept free of soil or mud build up as a result of construction. Road surfaces shall be cleaned as appropriate for the road conditions.	PER	At all times
	Minimise drop heights between conveyors	Hanson	During construction
	Bag fills in batch plants would not be filled to the top of the silos	Hanson	During construction
Noise		Staff Responsible	When
	Batch plant will be restricted to licensed operating hours (7am to 6pm Monday to Friday and 8am to 5 pm Saturday).	PER	At all times
	Any out of hours work will be completed under approval from the PER and subject to noise monitoring and verification.		
	All plant and equipment to undergo a Plant Hazard Assessment (PHA's) prior to gaining access to the site.	PER	At all times
	Plant and equipment is to be regularly inspected and maintained to ensure it is running optimally.	Hanson	At all times
	Unless otherwise specified or approved by the appropriate authority, plant and equipment shall not be started up or left operating during working hours unnecessarily.	Hanson	At all times
	Weekly monitoring of noise levels at project boundaries to ensure operations are within licensed limits (58dBA).	PER	Weekly while operating
	Monitoring to be conducted immediately in response to any community complaint. Operational noise will be assessed and measures implemented to reduce noise if over 58dBA.	PER	As required
Water		Staff Responsible	When
	All stormwater to be directed to site sediment detention pond as per site Soil and water Management Plan. Water to be treated if required, and as identified by sampling, prior to discharge within licensed limits (pH/turbidity).	All subcontractors	Monthly
	Reuse of waste water within the site for dust suppression	Project Administrator / PER	Monthly
	Batch plant areas to be bunded to contain stormwater. Cut off drains if necessary.	JH	Prior to establishment
	Monitoring of water runoff as part of weekly and post train environment inspections.	PER	Weekly/as required
Local Traffic		Staff Responsible	When



	Local traffic impacts will be restricted to delivery of cementitious and aggregate material. This is estimated at a maximum 25 truckload per day. All trucks will have loads covered and be subject to Project rules and procedures. The production of concrete on site will eliminate need for ag—trucks to use local road network. A Traffic Management Plan has been prepared for the site and local road system.	Hanson	At all times
	All traffic on site is limited to 20km/h. This helps control dust on internal roads and limits noise.	Site H&S	At all times
	Rumble grids at egress points to control tracking of material offsite onto public roads. Roadways to be cleaned where tracking is identified and excessive.	PER	At all times
Waste		Staff Responsible	When
	Reuse of waste water within the site for dust suppression	Hanson	At all times
	Recycling of waste concrete via local concrete recyclers	John Holland	At all times
Chemicals		Staff Responsible	When
	Fuel and chemical areas to be bunded.	Hanson	At start-up
5.2 Monitoring			
No	Monitoring Required	Staff Responsible	When
	Monitoring noise at sensitive receivers.	PER	Weekly.
	Any excessive air quality or visual amenity issues shall be recorded on the Enviro Inspection Checklist. Informal daily observations to be recorded in site diaries – including consideration of weather conditions and certain activities with a high dust generation potential.	PER/Site Supervisor	At all times/ Weekly
	Dust deposition gauges shall be mounted along the site boundary at locations relevant to the Projects nearest sensitive receivers. These locations are identified in the site SEP. Dust monitoring samples shall be retrieved fortnightly, with the samples sent to a NATA accredited lab for analysis and reporting.	PER	Monthly
	Dust monitoring samples shall be retrieved fortnightly, with the samples sent to a NATA accredited lab for analysis and reporting.	PER	Fortnightly
	Should complaints be received, appropriate monitoring will be undertaken at a location relevant to the nearest sensitive receiver.	PER	Following receipt of a complaint
5.3 Reporting			



No	Reporting Required	Staff Responsible	When
	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	All times
	All complaints / incidents regarding air quality and visual amenity shall be reported immediately to the PER.	All staff	Following incident/complaint
	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
	JH Operations 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 <i>(As required by the Protection of the Environment Operations Act 1997)</i> .	PD / PER	Following incident
	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	Verbally within 2 hours, and in writing within 24 hours
	A summary of incidents and valid complaints shall be provided monthly to the client and include the actions that were taken to address the complaint.	PD / PER	Monthly
	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
	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

6.0 Suggested Corrective Actions

Example	Suggested Corrective Action
Community query / complaint on noise or dust levels	<ul style="list-style-type: none"> Investigate the complaint. Consulting with supervisors, operators, project engineers, construction manager. Monitor the site if the activity is still occurring. Implement appropriate management and mitigation measures. Summary of investigation and mitigation measures to be submitted to the Client.
Exceedance of air quality criteria	<ul style="list-style-type: none"> Where there is clearly a visual exceedance and impact of dust, cease dust generating activities. If exceedance is identified through dust reporting results, PER to inform Site Manager SM / PER to determine the source of dust, stop work if necessary, identify appropriate alternative(s) and implement controls and/or mitigation measures. Monitor the site visually and/or through reporting results to establish if the controls and/or mitigation measures are effective. Where appropriate, exceedance and remediation methods implemented to be communicated to project team and wider work force. Summary of exceedances to be submitted to the Client.