

CONCRETE BATCHING PLANT MANAGEMENT PLAN DOCUMENT NO: DOPP-CONC-001

Recommended Documents to be Read in Conjunction

This management procedure should be read in conjunction with the DOPPELMAYR (DOPP) Concrete Integrated Management Systems Policy - IMS (Incorporating Quality, Health Safety and Environmental), DOPP plant risk assessments:

Distribution

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Revisions

DATE	REV	DETAILS	PREPARED	APPROVED
18/04/2024	A	Draft	S. Turner	
05/05/2024	В	Photos added, reference drawing added.	S. Turner	

Reference Drawings

Smiggin Holes Quarry Mobile Batch Plant

2021-15-C-100_A



1.0 Scope

This Concrete Batching Plant Management Plan is applicable for the batching of concrete at Smiggin Holes quarry for the delivery of concrete to the Mt Perisher-6 and associated works project. Project specific conditions and approvals are also to be addressed if required.

DOPP proposes the establishment of a mobile concrete batching plant. This will require the following plant and equipment:

• Mobile batch plant – MODEL – Thomas Manufacturing Top of The Range Batching Plant (40m3/hr)

- Loader
- 2x20,000L water tank
- Agitator Trucks
- 2xHorizontal cement silo MODEL 20ft Iso tank
- Material Storage Areas (Cementitious, Aggregate and Admixtures)
- 50KVA generator
- 2x washout skips
- 4x waste concrete block moulds

Water supply will initially be via water trucked in with a storage water tank located onsite. Partial re-use of process water is also proposed.

The batch plant will be powered by generators.

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 may also be stored onsite in bunded containment

- Master AIR
- Masterglenium

• Master Poz

2.0 Objectives

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

- Identify potential environmental impacts of the concrete batching plant;
- Detail environmental controls to minimise impacts of the establishment and operation of the plant;
- Address any relevant project specific conditions regarding planning approvals;



3.0 Project Details

Produce and supply concrete for general works for the construction of the Mt Perisher 6 and associated works

Approximately 1000m³ is to be delivered from the plant in a 5 month period

Undertake mix design trials and plant configuration setup.

Complete full risk assessment on plant and identify and potential hazards

Develop SOP's and training matrix to ensure all personnel understand the plant and are trained on environmental requirements.

3.1 Performance Criteria

1. Plant operations to occur within defined noise, air and water quality limits. As set by DOPP Concrete or project specific approval conditions. 2. Any and all complaints to be addressed within 48 hours

- 3. Waste management addressed as per this plan
- 4. Produce materials to meet internal requirements and agreed specifications.

3.2 Potential Environmental Impacts

- Dust Impact air quality through the creation of dust.
- Noise Increase in local noise levels due to plant operations.
- Water Impact to water quality (increase in pH and suspended solids) as a results of wastewater runoff.
- Chemicals/Fuels Impact to water quality as a result of water runoff.
- Traffic Increased local traffic around plant area.
- Waste Waste created by the plant i.e returned concrete, general rubbish.

• Cement / SCMs (Supplementary Concrete Materials) - Impact air and water quality through dust and fine particles into the environment.



4.0 Management Strategies		
Air Quality		
Actions	Responsible	When
Batch plants set up on hardstand to reduce dust	DOPP	Prior To Establishment
Enclose stockpiles and look at site set up position to minimise wind effects.	DOPP	Prior To Establishment
 During all site operations and the operation of the plant, all reasonable and feasible measures will be implemented to minimise dust generation. This will include: Use of watering systems as dust suppression on production belts, hoppers, stockpiles, unsealed hardstands and other exposed or trafficable areas (This may be by a watercart) Re-use of process water for water for dust suppression (where possible) Use of filters on all silos Use of air tight connections and valve systems 	DOPP	At All Times
 Monitoring of dust levels Visual inspections to be done at all times If required monitoring points are to be set up on site boundaries to monitor dust. These should be checked and recorded daily to insure activities are within limits. 	DOPP	Visual – At All Times Monitoring – Daily/Weekly (If Required)
Weekly site Environmental Inspections to include assessment of dust suppression techniques and methods and report any positives or negatives – Issues to be raised with Plant Manger to review.	DOPP	Weekly
Implementation of additional techniques where dust suppression inadequate (monitoring results) i.e fencing / bunding	DOPP	If Required
Stabilised site entry / exit point established for entry onto public roads.	DOPP	Prior To Establishment
Public roads adjacent to site entry / exit to be kept free from dust, soil and mud build up as a result of plant operation	DOPP	At All Times & If Required
Vinimise drop heights between plant conveyors and feed hoppers	DOPP	During Production
ilos must not be overfilled	DOPP	At All Times
All fine particle admixtures and chemicals to be stored in a building or container	DOPP	At All Times
All traffic on site will be restricted to 20km/h. As well as a safety condition this will help to control dust onsite and limit noise.	DOPP	At All Times
Noise		
Actions	Responsible	When
Batch plant to be restricted to hours 7am to 5:00pm Mon – Sat (unless additional approval licence granted or project approved)	DOPP	At All Times
Any out of hours works will be subject to noise monitoring and verification	DOPP	At All Times



Responsible DOPP	When
DOPP	
	At All Times
DOPP	Prior To Establishment
DOPP	At All Times
Responsible	When
DOPP	Monthly
DOPP	At All Times
DOPP	Prior To Establishment
DOPP	Monthly Or After Rain Event (+ 5mm)
Responsible	When
DOPP	At All Times
DOPP	At All Times
DOPP	At All Times
DOPP	At All Times & If Required
	Responsible DOPP DOPP



Waste		
Actions	Responsible	When
Reuse of waste water within site for dust suppression, and mix design	DOPP	At All Times
Recycling of waste concrete via casting into Beton Blocks	DOPP	At All Times
All site bottles and can to be recycled where possible utilizing recycling containers provided in break rooms and site offices.	DOPP	At All Times
Chemicals		•
Actions	Responsible	When
All fuels and chemicals onsite to be labelled correctly and should be accompanied by a SDS readily available for viewing. All fuels and chemicals are to be stored in a bunded area or bunded container.	DOPP	At All Times
All fine particle admixtures and chemicals to be stored in a bunded container storage.	DOPP	At All Times

Responsible	When
DOPP	If Required Or If Directed
DOPP	At All Times & Weekly
DOPP	If Required Or If Directed
DOPP	If Required
	DOPP DOPP DOPP



6.0 Reporting

Requirements	Responsible	When
Details of field observations shall be reported via Environmental Inspections and Housekeeping Inspections. These are to be communicated to all staff during pre-starts, toolbox and team meetings.	DOPP	At All Times
All complaints / Incidents regarding noise, air quality and visual amenity must be reported to the DOPP HSE Manger immediately. Relevant procedures for complaints handling / reporting should be followed.	DOPP	At All Times
DOPP Management Team is to be notified of any incident that has caused or is likely to cause material harm to the environment. Relevant regulators and stakeholders are to be notified (as required by the Protection of the Environment Operations Act 1997)	DOPP	At All Times
If DOPP is operating on a project site, DOPP will notify project management team of all valid incidents or complaints - verbally within 2 hours and in writing within 24 hours.	DOPP	If Required

7.0 Training Requirements Responsible When All DOPP personnel and sub-contractors to be inducted before commencing works onsite. Inductions to include all relevant information regarding site safety and environmental requirements. DOPP At All Times All DOPP personnel to be trained on Environmental requirements yearly. Records of completion of this training are to be kept for reference. Any new requirements or regulations will be toolboxed as soon as possible after changes are made and all personnel are to sign off on amendments. DOPP At All Times Image: The top is the top is to be inducted to the top is top



8.0 Suggested Corrective Actions			
Example	Suggested Corrective Action		
Community query / complaint on noise or dust levels	 Investigate the complaint Monitor the site to confirm Implement appropriate management and mitigation measures (where feasible) 		
Exceedance of air quality criteria	 Where there is a clear exceedance and impact of dust, cease dust generating activities where possible using existing controls i.e water cart. Determine the source of the dust, stop work if necessary, identify appropriate alternative and implement controls or mitigation methods. Solutions to be added to action plan, SMWS, SOP's and toolboxes. All staff to be trained regarding changes and sign onto new SWMS and SOP's. 		
Sediment run off	 Construct sediment fencing and retention pond at point of run-off Clean sediment pond as required 		



Reviewed by – Review of hazard and controls to be carried out by workgroup, prior to use on project				
Name				
Role				
Signature				
Date				

9.0 Equipment Photos	
20ft Iso container for Cement storage	
Waste concrete Beton Block mould	



