
Appendix 5



CONCRETE BATCHING PLANT MANAGEMENT PLAN
DOCUMENT NO: CAMM-CONC-CBPMP-001

Recommended Documents to be Read in Conjunction

This management procedure should be read in conjunction with the CAMM Concrete Integrated Management Systems Policy - IMS (Incorporating Quality, Health Safety and Environmental), CAMM Concrete Waste Management Plan, CAMM Concrete Hazardous Chemical Management Procedure and CAMM Concrete Plant Risk Assessment – Plant Number:

Distribution

This document is not to be distributed without the written permission of CAMM Concrete.

Revisions

Draft issues of this document shall be identified as Revision A, B, C etc. Upon initial issue 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
17/11/2020	A	Draft	All	A Wherry		

1.0 Scope

This Concrete Batching Plant Management Plan is applicable to the onsite works at various projects where CAMM Concrete mobile plant is to be established. Project specific conditions and approvals are also to be addressed if required.

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

- Mobile batch plant – Tylden JL Series
- Loader
- Batch Hut
- Crib Room
- Toilet
- Agitator Trucks
- Material Storage Areas (Cementitious, Aggregate and Admixtures)

Water supply will initially be via water trucked in with a storage facility located onsite. If available and approved water will be via mains supply. 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;

- Master AIR
- Masterglenum
- 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 on Behalf of client Mendi Construction.
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 CAMM Concrete or project specific approval conditions.
2. Any and all complaints to be addressed within 48 hours
3. Waste management addressed as per CAMM Concrete Waste Management Plan
4. Produce materials to meet customer 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 particle into the environment.

4.0 Management Strategies		
Air Quality		
Actions	Responsible	When
Batch plants set up on hardstand to reduce dust	CAMM	Prior To Establishment
Enclose stockpiles and look at site set up position to minimise wind effects.	CAMM	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: <ul style="list-style-type: none"> 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 	CAMM	At All Times
Monitoring of dust levels <ul style="list-style-type: none"> 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. 	CAMM	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.	CAMM	Weekly
Implementation of additional techniques where dust suppression inadequate (monitoring results) i.e fencing / bunding	CAMM	If Required
Stabilised site entry / exit point established for entry onto public roads.	CAMM	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 <ul style="list-style-type: none"> Use of street sweeper maybe required in some circumstances 	CAMM	At All Times & If Required
Minimise drop heights between plant conveyors and feed hoppers	CAMM	During Production
Silos must not be overfilled	CAMM	At All Times
All fine particle admixtures and chemicals to be stored in a building or container	CAMM	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.	CAMM	At All Times
Noise		
Actions	Responsible	When
Batch plant to be restricted to hours 7am to 4:30pm Mon – Fri (unless additional approval licence granted or project approved)	CAMM	At All Times
Any out of hours works will be sumject to noise monitoring and verification	CAMM	At All Times
Noise (Continued)		

Actions	Responsible	When
All plant and equipment to undergo a Plant Hazard Assessment before assessing site	CAMM	At All Times
Unless otherwise specified or approved, plant and equipment shall not be started or left operating during work hours unnecessarily.	CAMM	Prior To Establishment
Monthly monitoring of noise levels at project or property boundaries to ensure operations are within a reasonable limit – 58dBA		
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.	CAMM	At All Times
Water		
Actions	Responsible	When
Site to be bunded where possible and all stormwater to be directed to site sediment detention pond. Water to be reused onsite where possible or if tested and within required limits (treatment may also an option) discharged off site.	CAMM	Monthly
Waste water created onsite to be used onsite for dust suppression.	CAMM	At All Times
If drains present where plant site is established these should be cut off to prevent any unplanned discharge offsite	CAMM	Prior To Establishment
Monitoring of water run off as part of Monthly and post rain event environmental inspection.	CAMM	Monthly Or After Rain Event (+ 5mm)
Traffic		
Actions	Responsible	When
Local traffic impacts will be restricted to delivery of cementitious and aggregate materials and supply of concrete in agitators offsite. This is estimated at a maximum 50 truck loads (may vary depending on site requirements) per day. If plant is set up within a project this will eliminate the need for agitator trucks on local roads. All loads will be covered and be subject to DTMR, site and project specific rules and procedures.	CAMM	At All Times
All traffic to follow the traffic management plan (TMP) prepared for site and entry / exit onto local roads.	CAMM	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.	CAMM	At All Times
Public roads adjacent to site entry / exit to be kept free from dust, soil and mud build up as a result of plant operation <ul style="list-style-type: none"> • Use of street sweeper maybe required in some circumstances • Rumble grids maybe installed if required at exit points to control tracking of materials offsite onto public roads 	CAMM	At All Times & If Required

Waste

Actions	Responsible	When
Reuse of waste water within site for dust suppression	CAMM	At All Times
Recycling of waste concrete via internal crushing and screening for reuse or via local concrete recyclers	CAMM	At All Times
All site bottles and can to be recycled where possible utilizing recycling containers provided in break rooms and site offices.	CAMM	At All Times
Chemicals		
Actions	Responsible	When
All fuels and chemicals onsite to be labelled correctly and should be accompanied by a MSDS readily available for viewing. stored in a bunded area or container. All fuels and chemicals are to be stored in a bunded area or bunded container.	CAMM	At All Times
All fine particle admixtures and chemicals to be stored in a building or container	CAMM	At All Times

5.0 Monitoring		
Requirements	Responsible	When
Monitoring of site at sensitive receivers may be undertaken to ensure levels are acceptable. This can be the CAMM WHSE Manager or this maybe a site/project specific requirement.	CAMM	If Required Or If Directed
Any excessive noise, air quality or visual amenity issues shall be recorded on the Environmental Inspection. Informal daily observations are to be recorded in site diaries, these entries should include considerations of weather conditions and certain activities with a high noise or dust generation potential.	CAMM	At All Times & Weekly
If required dust deposition gauges maybe used to monitor sensitive receivers. This can be the CAMM WHSE Manager or this maybe a site/project specific requirement. If sampling is undertaken, samples are to be sent to a NATA accredited laboratory for analysis and reporting.	CAMM	If Required Or If Directed
If a complaint is received, appropriate monitoring is to be undertaken to determine validity. Efforts should be made to address the complaint and any reasonable additional steps to prevent further complaints.	CAMM	If Required

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.	CAMM	At All Times
All complaints / Incidents regarding noise, air quality and visual amenity must be reported to the CAMM WHSE Manger immediately. Relevant procedures for complaints handling / reporting should be followed.	CAMM	At All Times
CAMM Concrete 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)	CAMM	At All Times
If CAMM is operating on a project site, CAMM will notify project management team of all valid incidents or complaints - verbally within 2 hours and in writing within 24 hours.	CAMM	If Required

7.0 Training		
Requirements	Responsible	When
All CAMM personnel and sub-contractors to be inducted before commencing works onsite. Inductions to include all relevant information regarding site safety and environmental requirements.	CAMM	At All Times
All CAMM 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.	CAMM	At All Times

8.0 Suggested Corrective Actions	
Example	Suggested Corrective Action
Community query / complaint on noise or dust levels	<ul style="list-style-type: none"> Investigate the complaint Monitor the site to confirm Implement appropriate management and mitigation measures (where feasible)
Exceedance of air quality criteria	<ul style="list-style-type: none"> 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 toolboxed. All staff to be trained regarding changes and sign onto new SWMS and SOP's.

8.0 Suggested Corrective Actions (Continued)	
Example	Suggested Corrective Action

Reviewed by – Review of hazard and controls to be carried out by workgroup, prior to use on project				
<i>Reason for Review</i>				
<input type="checkbox"/> Incident based <input type="checkbox"/> Changes to legal and other requirements <input type="checkbox"/> Annual review <input checked="" type="checkbox"/> New project/job site review <input type="checkbox"/> External document/statistics <input type="checkbox"/> Work crew initiated <input type="checkbox"/> Other				
Name				
Role				
Signature				
Date				