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ANNUAL DUST MANAGEMENT REPORT FOR ANGASTON WORKS

2023 Annual Report and TARP Review

Compliance date: 30/11/2023

EPA Licence: 35

Licensed site: Adelaide Brighton Cement, Angaston Works
345 Stockwell Road, Angaston, SA 5353

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Report Submitted by: Advisor Environment - C&L (SA/NSW/NT)

Glossary

Term	Definition
$\mu\text{g}/\text{m}^3$	micrograms per cubic metre
mg/m^3	milligrams per cubic metre
μm	micrometre
$^{\circ}\text{C}$	degrees Celsius
m	metre
m^3	cubic metre
m^3/s	cubic metres per second
Nomenclature	Definition
PM ₁₀	Particulate matter with a diameter less than 10 micrometres
PM _{2.5}	Particulate matter with a diameter less than 2.5 micrometres
24 hour average	Calendar day (midnight to midnight)
Abbreviations	Definition
ABC	Adelaide Brighton Cement
Air EPP	South Australian Environment Protection (Air Quality) Policy 2016
DMP	Dust Management Plan
EPA	Environment Protection Authority
SPMP	Stack Particulate Management Plan
TARP	Trigger Action Response Plan

Purpose	The purpose of the Dust Management Plan (DMP) is to minimise dust emissions from on-site activities.
Dust Management Plan	<p>This report has been prepared in compliance with the Dust Management Plan, approved 25 October 2019, by SA EPA.</p> <p>The plan is available on the ABC Angaston Community website: https:// https://www.angastoncommunity.com.au</p>
Background Information	<p>The DMP contains a Trigger Action Response Plan (TARP) to proactively manage fugitive dust emissions.</p> <p>The TARP uses two levels of trigger:</p> <p>The following two levels of trigger/response have been defined:</p> <ul style="list-style-type: none"> • Level 1 trigger (investigate) – potential for dust emissions • Level 2 trigger (escalate) – potential for dust emissions to be higher than normal and action may be required <p>Triggers and responses have been defined for:</p> <ul style="list-style-type: none"> • Visual observations • Meteorological parameters <p>The TARP has been designed to allow proactive management of fugitive dust. Therefore, a trigger, does not indicate the presence of an off-site dust impact.</p> <p>Trigger levels and responses are documented in the EPA Approved DMP.</p>

<p>Reporting Objective</p>	<p>To review the effectiveness of the Trigger Action Response Plan (TARP) contained within the approved Dust Management Plan (DMP) and includes;</p> <ul style="list-style-type: none"> • A table detailing <ul style="list-style-type: none"> • date, time and trigger exceeded • action and response strategies implemented • A review of all trigger values • A review of the effectiveness of all action and response strategies and adverse trends • A review and analysis of community complaints with the exceedance of trigger values • Opportunities for improvement in dust management
<p>Review of Triggers, Community complaints and Effectiveness of the TARP</p>	<p>Summary of TARP alerts and actions for the reporting period is attached (refer to appendix 1):</p> <ul style="list-style-type: none"> • A total of 28 Level 1 Meteorological trigger alerts were raised for the reporting year • A total of 95 Level 2 Meteorological trigger alerts were raised for the reporting year • 0 visual Triggers was raised for the reporting year <p>Complaints:</p> <ul style="list-style-type: none"> • There was no community dust complaint for the reporting year <p>Effectiveness:</p> <ul style="list-style-type: none"> • This report confirms the current TARP is assisting in managing dust control measures to minimise offsite dust from the site <p>Opportunities for improvement:</p> <ul style="list-style-type: none"> • Given the number of Level 2 Meteorological alerts and no site and community reports of fugitive dust emissions leaving the site it is suggested that the Meteorological Level 2 trigger could be reduced in sensitivity by increasing the trigger threshold for wind speed from 8 m/s to 11 m/s.

**Appendix 1
Trigger /
Response
Summary**

Date Time	Level- 1 Trigger wind speed $\geq 6\text{m/s}$ and $90 \leq$ wind direction ≤ 180	Level-2 Trigger wind speed $\geq 8\text{m/s}$	Response
04/10/2022 6:30	Yes		Reduce planned activity level. No carting activities scheduled on these times.
04/10/2022 17:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
07/10/2022 17:30		Yes	Stop all activity in stockpile areas. No carting activities will be scheduled on these times.
19/10/2022 17:30	Yes		Reduce planned activity level. No schedules carting activities.
20/10/2022 6:30	Yes		Reduce planned activity level. No carting activities schedule today.
20/10/2022 9:30	Yes		Reduce planned activity level. No carting on these times.
27/10/2022 16:30		Yes	Stop all activity in stockpile areas. No carting activities. both kilns are Off.
28/10/2022 13:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled. both kilns are Off.
30/10/2022 17:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
31/10/2022 0:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
31/10/2022 16:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
01/11/2022 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
01/11/2022 18:30		Yes	Stop all activity in stockpile areas. No open carting activities scheduled on these times.
09/11/2022 12:30		Yes	Assess potential for shifting operations to more favourable conditions. No carting schedules planned for these times.
13/11/2022 18:30		Yes	Assess potential for shifting operations to more favourable conditions. carting of rejects done before the high winds.

	14/11/2022 6:30		Yes	Assess potential for shifting operations to more favourable conditions. shift carting activities when weather condition is better.
	14/11/2022 15:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of lime rejects done when wind conditions are better.
	19/11/2022 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
	20/11/2022 3:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
	20/11/2022 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
	21/11/2022 1:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
	21/11/2022 17:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of rejects to be done the next day.
	21/11/2022 17:30		Yes	Stop all activity in stockpile areas. No carting activities until wind condition is better.
	26/11/2022 14:30		Yes	Stop all activity in stockpile areas. No carting activities done on these times.
	05/12/2022 18:30	Yes		Reduce planned activity level. Carting done before these times.
	07/12/2022 18:30		Yes	Stop all activity in stockpile areas. No open truck carting activity.
	12/12/2022 16:30		Yes	Stop all activity in stockpile areas. No open carting done on these times.
	13/12/2022 16:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	14/12/2022 18:30	Yes		Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
	14/12/2022 18:30	Yes		Reduce planned activity level. No carting activities scheduled on these times.

14/12/2022 19:30	Yes		Reduce planned activity level. No carting activities scheduled on these times.
17/12/2022 4:30	Yes		Assess potential for shifting operations to more favourable conditions. No carting activities scheduled on these times. Carting of ckd done when weather was better.
17/12/2022 8:30	Yes		Reduce planned activity level. No carting activities scheduled on these times.
19/12/2022 10:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done after the high winds when weather condition is better.
04/01/2023 18:30	Yes		Reduce planned activity level. No open truck carting activities scheduled on this day.
04/01/2023 19:30	Yes		Reduce planned activity level. No open truck carting activities scheduled on this day.
05/01/2023 18:30	Yes		Assess potential for shifting operations to more favourable conditions. Carting of dust & rejects done before high winds.
05/01/2023 19:30	Yes		Reduce planned activity level. No more open truck carting activities scheduled on this hour.
06/01/2023 9:30	Yes		Reduce planned activity level. No open truck carting activities scheduled on this day.
15/01/2023 11:30	Yes		Assess potential for shifting operations to more favourable conditions. cart LKD and rejects when wind conditions are better.
18/01/2023 17:30	Yes		Reduce planned activity level. No carting activities scheduled on these times.
19/01/2023 10:30	Yes		Reduce planned activity level. No open carting activities scheduled on the day.
21/01/2023 18:30	Yes		Reduce planned activity level. No carting activities scheduled on these times.
21/01/2023 19:30	Yes		Reduce planned activity level. No carting activities scheduled on these times.

	02/02/2023 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	02/02/2023 20:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	03/02/2023 13:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
	10/02/2023 11:30		Yes	Assess potential for shifting operations to more favourable conditions. carting ckd done first thing in the morning before high wind forecast.
	11/02/2023 13:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	12/02/2023 18:30	Yes		Reduce planned activity level. No carting activities scheduled on the day.
	12/02/2023 19:30	Yes		Reduce planned activity level. No carting activities scheduled on the day.
	21/02/2023 6:30	Yes		Reduce planned activity level. No carting activities scheduled on these times.
	21/02/2023 18:30	Yes		Assess potential for shifting operations to more favourable conditions. No open truck carting schedule on these times.
	05/03/2023 18:30		Yes	Stop all activity in stockpile areas. No open carting activities on the day.
	05/03/2023 20:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	06/03/2023 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	06/03/2023 19:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	16/03/2023 16:30		Yes	Assess potential for shifting operations to more favourable conditions. carting of lime rejects done before these times.
	18/03/2023 16:30		Yes	Assess potential for shifting operations to more favourable conditions. LKD and rejects carted before the high wind forecast.

20/03/2023 6:30	Yes		Reduce planned activity level. No schedule activity on this day.
20/03/2023 13:30	Yes		Assess potential for shifting operations to more favourable conditions. Stopped clay carting due to high winds & will reschedule.
07/04/2023 14:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
12/04/2023 0:30		Yes	Stop all activity in stockpile areas. No open truck carting schedule on these times.
12/04/2023 16:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities done when weather conditions are better.
26/04/2023 15:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
26/04/2023 21:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
27/04/2023 15:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
03/05/2023 3:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
07/06/2023 12:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
08/06/2023 6:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
08/06/2023 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
09/06/2023 0:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
13/06/2023 16:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
16/06/2023 14:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.

	17/06/2023 6:30		Yes	Stop all activity in stockpile areas. No open carting activities scheduled on these times.
	17/06/2023 15:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
	18/06/2023 15:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
	18/06/2023 15:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
	19/06/2023 3:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	22/06/2023 15:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on this period.
	23/06/2023 6:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	23/06/2023 14:30		Yes	Assess potential for shifting operations to more favourable conditions. CKD carting activities will be done before these times.
	24/06/2023 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	25/06/2023 6:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	25/06/2023 16:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
	25/06/2023 21:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
	05/07/2023 14:30		Yes	Assess potential for shifting operations to more favourable conditions. clay carting will be done before these times.
	06/07/2023 16:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.

07/07/2023 18:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
07/07/2023 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled after 1PM.
08/07/2023 6:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
08/07/2023 16:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
20/07/2023 14:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
30/07/2023 13:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
04/08/2023 3:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
04/08/2023 12:30		Yes	Assess potential for shifting operations to more favourable conditions. No carting activities scheduled on the day.
17/08/2023 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
18/08/2023 12:30		Yes	Assess potential for shifting operations to more favourable conditions. No carting activities scheduled on these times. Carting of ckd done when weather was better.
06/09/2023 15:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
07/09/2023 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
07/09/2023 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
08/09/2023 4:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.

	08/09/2023 12:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
	14/09/2023 15:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	20/09/2023 5:30		Yes	Assess potential for shifting operations to more favourable conditions. dumping of K2 bricks done when weather was better.
	20/09/2023 15:30		Yes	Stop all activity in stockpile areas. No more dumping of K2 bricks by these times.
	02/10/2023 17:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
	02/10/2023 23:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
	03/10/2023 16:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
	04/10/2023 16:30		Yes	Stop all activity in stockpile areas. No open truck carting schedule on these times.
	07/10/2023 5:30	Yes		Reduce planned activity level. No carting activities scheduled on the day.
	11/10/2023 16:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of clinker done when weather conditions are better.
	12/10/2023 6:30		Yes	Assess potential for shifting operations to more favourable conditions. Clinker carting continues when weather condition is favourable.
	12/10/2023 16:30		Yes	Assess potential for shifting operations to more favourable conditions. Clinker carting when weather conditions are better.
	15/10/2023 17:30		Yes	Assess potential for shifting operations to more favourable conditions. No carting activities scheduled on these times.
	21/10/2023 17:30		Yes	Assess potential for shifting operations to more favourable conditions. Move carting when weather condition is better.

24/10/2023 6:30		Yes	Assess potential for shifting operations to more favourable conditions. Clay carting activities will be shifted to better weather conditions.
24/10/2023 18:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done when weather conditions are better.
25/10/2023 17:30		Yes	Assess potential for shifting operations to more favourable conditions. Clay carting done when weather condition was better.
26/10/2023 10:30	Yes		Reduce planned activity level. No carting activities scheduled on these times.
28/10/2023 14:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of LKD when weather condition is better.
30/10/2023 18:30		Yes	Assess potential for shifting operations to more favourable conditions. Carted QL rejects when weather was better.
30/10/2023 19:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.