Amended Licence

Licence Number L4533/1967/15

Licensee Cockburn Cement (ACN) 008 673 470

Limited

Registered business address Level 1, 157 Grenfell Street

Adelaide SA 5000

Duration 31/03/2012 to 30/09/2022

Prescribed Premises Category 43 – Cement or lime manufacturing

Category 12 - Screening etc. of material

Category 61A – Solid waste facility Category 63 – Class I inert landfill

Premises Cockburn Cement Limited Munster

Being Lot 450 on Plan 249735 Rockingham Rd, Lot 50 on Diagram 6065, Lot 88 on Plan 22127, Lot 246 on Plan 226117, Lot 5 and Lot 4 on Diagram 18525 and Lot 311 on Plan 300770 Russell Road,

MUNSTER 6166

This Amended Licence is granted to the Licensee, subject to the following conditions, on 9 March 2022 by:

Caron Goodbourn A/SENIOR MANAGER, PROCESS INDUSTRIES REGULATORY SERVICES

an officer delegated under section 20 of the Environmental Protection Act 1986 (WA)

09/03/2022

Conditions

Environmental compliance

- 1. The *Licensee* must comply with the *EP Act* and all regulations prescribed under the EP Act applicable to the *Premises*, including:
 - (a) the duties of an occupier under s 61;
 - (b) the duty to notify the **CEO** of **discharges** of **waste** under s 72; and
 - (c) not causing, or doing anything that is likely to cause, an offence under the EP Act,

except where the Licensee does something in accordance with a *condition* which expressly states that a defence under s 74A of the EP Act may be available.

Emissions

2. The Licensee must not cause any *emissions* from the Premises except for Specified Emissions and General Emissions described in column 1, subject to the exclusions, limitations, or requirements specified in column 2 of Table 1 below.

If the Licensee proves that it has acted in accordance with this condition, it may be a defence under s 74A of the EP Act to proceedings for offences under the EP Act (including offences under s 56).

Table 1: Emissions Table

| Column 1 | Column 2 |
|---|---|
| Emission Type | Exclusions/Limitations/Requirements |
| Specified Emissions | |
| Discharges to air – Point Source, Ambient Odour and Ambient Dust | Only from Discharge Points specified in Table 2 and subject to compliance with conditions 7, 8, 9, 10, 11, 12,13, 14, 15, 18, 18A, 18C 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 |
| Land and Groundwater – contaminated or potentially contaminated stormwater and wastewater generated on the Premises | Subject to compliance with: |
| Land and Groundwater – disposal of lime kiln dust, cement kiln dust, high alkaline dust, or any other material collected from hoppers | Subject to compliance with: |
| Land and Groundwater – disposal of <i>Inert Waste Type 1</i> generated on the Premises or at the Kwinana facility | Subject to compliance with: |

| Column 1 | Column 2 | | | |
|---|--|--|--|--|
| Emission Type | Exclusions/Limitations/Requirements | | | |
| General Emissions (excludin | ng Specified Emissions) | | | |
| Emissions which: | Emissions excluded from General Emissions are: | | | |
| originate from the activities on the Premises arising from matters set out in, or incidental to the | • unreasonable emissions; or | | | |
| | emissions that result in, or are likely to result in, pollution, material environmental harm or serious environmental harm; or | | | |
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| matters set out in, the General Description in Schedule 2. | discharges of waste in circumstances likely to cause pollution; or | | | |
| | emissions that result, or are likely to result in, the discharge or abandonment of waste in water to which the public has access; or | | | |
| | emissions or discharges which do not comply with an approved policy; or | | | |
| | emissions or discharges which do not comply with prescribed standard; or | | | |
| | emissions or discharges which do not comply with the conditions in an <i>implementation agreement</i> or decision; or | | | |
| | emissions or discharges the subject of offences under regulations prescribed under the EP Act, including materials discharged under the Environmental Protection (Unauthorised Discharges) Regulations 2004. | | | |

Discharges to Air

Infrastructure

3. The Licensee must ensure that pollution control equipment in Table 2 is operational for the purpose of lime manufacturing and product storage, should waste be emitted from the discharge points.

Table 2: Discharges to Air Infrastructure Requirements

| Discharge Points | Pollution Control Equipment | Emission Point | Current Status | Location and Reference |
|---------------------|-----------------------------------|-----------------|--------------------------|------------------------|
| Kiln 3 Stack | Electrostatic | Kiln 3 Stack | Care and | |
| | Precipitator | | maintenance ¹ | Schedule 1: |
| Kiln 4 Stack | Electrostatic | Kiln 4 Stack | Care and | Premises Plan |
| | Precipitator | | maintenance ¹ | D |
| Kiln 5 Stack | Baghouse | Kiln 5 Stack | Active | D |
| Kiln 6 Stack | Baghouse | Kiln 6 Stack | Active | |
| Low level | Dust collector | As per Premises | Active | Schedule 8 |
| sources (silos) | | Plan D | | |

Note 1: The current status of a discharge point in 'care and maintenance' reverts to 'active' as of the date specified in the notification as required by part (b) of condition 4.

- 4. The Licensee must notify the CEO in writing within 24 hours of activating a Discharge Point specified in Table 2 with a current status of 'care and maintenance' and provide the following details:
 - (a) discharge point(s);
 - (b) date and time of activation; and
 - (c) estimated timeframe for operating the discharge point.
- **5.** Pursuant to condition 3, the Licensee must undertake the following while a Discharge Point specified in Table 2 is active:
 - (a) Continuously monitor emissions in accordance with condition 7;
 - (b) Periodically monitor emissions in accordance with condition 13;
 - (c) Ensure emissions do not exceed the limits specified by condition 14;
 - (d) Report any limit exceedances in accordance with condition 44; and
 - (e) Publish real-time **CEMS** data for **PM** in accordance with conditions 16 and 17.
- **6.** Pursuant to condition 4, the Licensee must submit a report to the CEO within two weeks of returning a Discharge Point specified in Table 2 to 'care and maintenance' and include the following:
 - (a) The date of deactivation;
 - (b) CEMS data obtained in accordance with condition 7; and
 - (c) Periodical monitoring emissions data obtained in accordance with condition 13.

Point Source

- 7. The Licensee must continuously monitor volumetric flow rate, PM, Nitrogen Oxides (NOx) and Sulfur Dioxide (SO₂) emissions from the active Discharge Points specified in Table 2 (excluding low level sources (silos)), as per the requirements of Table 9, Schedule 3.
- **8.** The Licensee must install and commission CEMS that satisfy the requirements in Table 3 by **12 July 2020.**

Table 3: CEMS Installation Requirements

| Discharge Point | Parameters | Installation Requirements | Operational Parameters | |
|----------------------------------|--|------------------------------|--------------------------------------|--|
| Kiln 5 Stack and Kiln 6 Stack | Total Reduced Sulfur compounds (as SO ₂) | | | |
| | Carbon monoxide (CO) | Installed and calibrated in | Provide 1-minute and 1-hour averages | |
| | Oxygen (O ₂) Nitrogen Oxides (NOx) | accordance with | | |
| | Sulfur Dioxide (SO ₂) | the CEMS Code | | |
| | PM | | | |
| | Volumetric flow | | | |

- **9.** Following the installation of the CEMS required by condition 8, the Licensee must:
 - (a) operate and maintain all CEMS to the manufacturer's specifications and the CEMS Code; and
 - (b) ensure that the CEMS will be maintained by persons that are suitably qualified and trained.

- **10.** Following the installation of CEMS required by condition 8, the Licensee must conduct monitoring of Total Reduced Sulfur compounds, Oxygen, and Carbon Monoxide as per Table 9, Schedule 3 in addition to condition 7.
- **11.** Pursuant to condition 12, the Licensee must undertake a correlation curve, in accordance with the requirements of *USEPA* Performance Specification 11, on all continuous PM monitors annually to demonstrate their accuracy.
- **12.** The Licensee is only required to undertake a correlation curve on any PM CEMS, if the concentration of PM monitoring conducted in accordance with condition 7 is above 50 percent of a PM limit specified in Table 10 at any point during the previous **Calendar Year**.
- 13. The Licensee must conduct periodic monitoring of the active Discharge Points as specified in Table 2 (excluding low level sources (silos)), to satisfy the requirements of Table 7 and Table 8, Schedule 3.
- **14.** The Licensee must ensure emissions from the active Discharge Points, specified in Table 2, do not exceed the limits specified in Table 10, Schedule 3.
- **15.** The Licensee must control the discharge of Sulfur Dioxide from a source listed in the *Relevant Determination* within the Premises, so as to comply with the limits in the Relevant Determination and the monitoring and reporting requirements detailed in Schedule 5.
- The Licensee must publish on a Cockburn Cement Limited website on the internet real time CEMS data for PM from all active Discharge Points as specified in Table 2 (excluding low level sources (silos)), monitored in accordance with condition 7 and displayed in a graph form as mg/m³ and g/s.
- **17.** The Licensee must ensure that the real time CEMS data published in accordance with condition 16:
 - (a) has a maximum delay of 60 minutes;
 - (b) is viewable in a time period of at least 60 minutes; and
 - (c) is available for at least 90% of the time per *Calendar Year*.

Ambient Odour

18. The Licensee must prepare and submit to the CEO an odour survey plan at least three months prior to the completion of the installation and commissioning of CEMS as specified in condition 8. The odour survey plan must as a minimum address the requirements set out in Table 4.

Table 4: Odour Survey Plan Requirements

| Survey | Parameters | Frequency | Method | Reporting parameters |
|-----------------------|----------------------|---|---|--|
| Field Odour Survey | Plume Measurement | Monthly during March - November Fortnightly during December - February | VDI 3940- 2:2006 and VDI 3940- 3:2010 | Wind Speed Wind Direction Production details including: • Kiln status; • Production rates; and • Fuel type and ratio. CEMS data |

Note 1: Reporting requirements to include data for the duration of field odour survey, 1 hour prior to commencement and 1 hour following completion of field odour survey.

- **18A.** The Licensee must implement the odour survey plan prepared as per the requirements of condition 18 following the installation and commissioning of CEMS as specified in condition 8.
- **18B** The Licensee must, at their expense:
 - (a) undertake comprehensive investigations into the source and cause of odour from the active kilns over summer and autumn 2019, with a view to identifying what emissions or process controls can be applied to address odour emissions; and
 - (b) prepare and submit to the CEO by no later than **1 August 2019**, a report on the outcomes of the investigations and proposed solutions.
- The Licensee must ensure that odour emitted from the premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the premises.
- **19.** The Licensee must monitor the coal stockpile using a thermal imagery camera twice a day, at least four hours apart.
- **20.** Pursuant to condition 19, if coal hotspots or fires are identified, the Licensee must undertake actions to extinguish or cool the coal within two hours.
- **21.** The Licensee must only use coal and/or natural gas as a fuel for kilns 3, 4, 5 and 6.
- 22. When using coal as a fuel, the Licensee must ensure that it does not exceed an average sulfur content of 0.7%, as measured on delivery.

Ambient Dust

23. The Licensee must install and commission an ambient monitoring system that satisfies the requirements in Table 5 by 12 November 2019.

Table 5: Ambient monitor installation requirements

| Monitoring Point | Location and Reference on Premises Plan A | Parameters | Installation Requirements |
|---------------------|--|------------------|---------------------------|
| AM1 | WEST | | |
| AM2 | SOUTH | | |
| AM3 | NORTH-A | PM ₁₀ | AS/NZS 3580.1.1 |
| AM4 | EAST | | |
| AM5 | NORTH-B | | |

- **24.** Following the installation of the ambient monitors required by condition 23, the Licensee must:
 - (a) maintain the ambient monitors to the manufacturer's specifications; and
 - (b) ensure that the ambient monitors will be maintained by persons that are suitably qualified and trained.
- **25.** The Licensee must conduct ambient monitoring in accordance with Table 11 and Table 12, Schedule 4.
- **26.** The Licensee must ensure ambient dust emissions from the Premises do not exceed the limits specified in Table 13, Schedule 4.
- 27. If ambient monitors exceed the response level in Table 13, Schedule 4, the Licensee must visually inspect activities within two hours of the exceedance, to identify the source of dust emissions in the following Premises locations:
 - (a) LKD disposal area and landfill;
 - (b) Landfill area;
 - (c) Coal stockpile;
 - (d) Shell sand stockpile
 - (e) Processing Area low level sources;
 - (f) Quarry; and
 - (g) Site wide housekeeping.
- 28. Pursuant to condition 27, upon identification of the source of dust emissions, the Licensee must undertake the corresponding management actions specified in Table 14, Schedule 4.
- 29. The Licensee must conduct daily inspections of the LKD Disposal area, landfill, coal stockpile, shell sand stockpile and processing area for the purposes of identifying potential dust sources and assessing the adequacy of dust control measures.
- 30. The Licensee must ensure that all dust including lime kiln dust, cement kiln dust, high alkaline dust or any other material collected from hoppers is disposed of to the LKD Disposal Area, identified in Premises Plan B, in a wet state.

- **31.** The Licensee must publish on a Cockburn Cement Limited website on the internet real time monitoring data for PM₁₀ from ambient monitoring stations AM1, AM2, AM3, AM4 and AM5 as specified in Table 11, monitored in accordance with condition 25, and displayed in a graph form as 1-hour averages.
- **32.** The Licensee must ensure that the real time PM₁₀ data published in accordance with condition 31:
 - (a) has a maximum delay of 60 minutes;
 - (b) is viewable in a time period of at least 60 minutes; and
 - (c) is available for at least 90% of the time per Calendar Year.

Land and Groundwater

Infrastructure

The Licensee must ensure that infrastructure is maintained and operated to satisfy the requirements of Table 16, Schedule 6.

Materials Handling and Disposal

- 34. The Licensee must ensure that all contaminated stormwater or wastewater (excluding stormwater from the employee and contractor carpark and associated roads and driveways) is treated in the Artificial Wetland specified in Table 16 or removed from the Premises to a facility authorised to accept and treat or dispose of the contaminated water.
- **35.** The Licensee must ensure that materials are stored, treated and disposed of in accordance with the requirements in Table 16, Schedule 6.
- **36.** The Licensee must ensure the following when disposing of waste to the landfill:
 - (a) Disposal of all waste on the premises is at least 35 meters inside the premises boundary;
 - (b) All waste is placed within a defined trench or within an area enclosed by earthen or other inert bunds;
 - (c) Restrict the tipping area to a maximum linear length of 30 meters;
 - (d) Ensure that any exposed face of the landfill does not exceed 2 meters in height; and
 - (e) Cover waste with a minimum inert final soil cover of at least 1 meter.
- **37.** The Licensee must maintain detailed records of the wastes deposited at the premises which must include but not be limited to:
 - (a) nature of waste;
 - (b) volumes of waste; and
 - (c) sources of waste.

Groundwater

38. The Licensee must install and commission groundwater monitoring bores that satisfy the requirements in Table 6 by **12 July 2019**.

Table 6: Groundwater monitoring bores installation requirements

| Monitoring Bores | Location and Reference on Premises Plan C | Description | Installation Requirements |
|--|--|--|--|
| Two monitoring bores: W1 and W2 | Area 1 | Downgradient of Artificial Wetland | (a) Installed to meet the requirements of <i>Minimum</i> Construction Requirements for Water Bores in Australia (AIH |
| One monitoring bore: LKD1 | Area 2A | Downgradient (southwest) of LKD Disposal Area | (b) Sited in accordance with the Department of Water <i>Water</i> |
| Two monitoring bores: LKD2 and LKD3 | Area 2B | Downgradient (west) of LKD Disposal Area | Quality Protection Note 30 Groundwater Monitoring Bores (DoW 2009). |
| Two monitoring bores: CS1 and CS2 | Area 3 | Downgradient of Coal stockpile | (c) Surveyed to allow the ground level (to Australian Height Datum) at each location to be accurately determined. |
| One monitoring bore: SS1 | Area 4 | Downgradient of Shell Sand Stockpile | (d) Separated by at least 50m where two bores are specified in one location. |

39. The Licensee must undertake groundwater monitoring in accordance with *AS/NZS* 5667.11 to satisfy the requirements of Table 17, Schedule 6.

Management

- **40.** The Licensee must ensure all non-continuous sampling and analysis for monitoring required by conditions of this licence is conducted by companies and laboratories with current *NATA accreditation* for the methods and analysis specified.
- 41. The Licensee must keep a written record of all complaints received concerning the impact of emissions from the premises for a minimum of three years, which must include but not be limited to:
 - (a) date and time both of the complaint and of any environmental impact reported by the complainant;
 - (b) a unique registration number;
 - (c) location of the complaint;
 - (d) general description of the nature of any environmental impact reported by the complainant to which the complaint relates;
 - (e) whether the complainant reported any adverse health effects;
 - (f) wind direction, wind speed and air temperature at the time of the complaint;
 - (g) the likely source(s) of the cause of the complaint;
 - (h) action taken in response to the complaint including results of any investigation(s) and action(s) taken to prevent a recurrence of the events giving rise to the complaint; and
 - (i) time taken to respond to the complaint.

- **42.** Following receipt of a complaint concerning the impact of emissions from the premises:
 - (a) within 72 hours of receipt of the complaint the Licensee must respond to the complainant;
 - (b) within 10 days of receipt of the complaint the Licensee must provide feedback, including but not limited to, investigation outcomes and action(s) taken (if any are appropriate) in relation to the complaint, unless such feedback is not requested by the complainant as a result of the response under part (a); and
 - (c) where the complainant has requested written feedback and has provided a physical or email address the Licensee must ensure that the feedback provided as per part (b) is in writing

Information

43. The Licensee must maintain accurate records including information, reports and data in relation to the calculation of fees payable in respect of this Licence.

Reporting

- **44.** If the Licensee exceeds a limit specified in this licence they must notify the CEO no later than 5pm on the next **usual working day** after becoming aware of the exceedance.
- **45.** The Licensee must by the 28th day of each month, provide to the CEO reports satisfying the requirements of Table 18, Schedule 7, for the previous month with the exception that:
 - (a) TRS, O₂, and CO CEMS data reporting is subject to the installation and commissioning of each CEMS, following commissioning, as specified in condition 8; and
 - (b) ambient data reporting for monitoring points AM1, AM2, AM3, AM4 and AM5 listed in Table 11 is subject to the installation and commissioning of each ambient monitoring systems specified in condition 23.
- **46.** The Licensee must by 1 April in each year, provide to the CEO an Annual Environmental Report satisfying the requirements of Table 19, Schedule 7, for the previous *Calendar Year*.
- 47. The Licensee must submit to the CEO within 90 days after the end of the *Calendar Year*, an *Annual Audit Compliance Report* indicating the extent to which the Licensee has complied with the Conditions in this Licence for the *Calendar Year*.

L4533/1967/15 File No: DER2015/000597

Definitions and Interpretation

Definitions

In this Licence, the following terms have the following meanings:

Anniversary Date means the anniversary of the date of grant of this Licence.

Annual Audit Compliance Report means a report in a format approved by the CEO as presented by the Licensee or as specified by the CEO from time to time and published on the Department's website.

AS/NZS3580.1.1 means the Australian/New Zealand Standard AS 3580.1.1 *Methods* for sampling and analysis of ambient air- Guide to siting air monitoring equipment.

AS/NZS3580.9.11 means the Australian/New Zealand Standard AS 3580.9.11 *Methods* for sampling and analysis of ambient air- Determination of suspended particulate matter $-PM_{10}$ beta attenuation monitors.

AS/NZS 3580.9.13 means the Australian/New Zealand Standard AS 3580.9.13 Methods for sampling and analysis of ambient air – Determination of suspended particulate matter – PM2.5 continuous direct mass method using a tapered element oscillating microbalance monitor.

AS/NZS 3580.14 means the Australian /New Zealand Standard AS/NZS 3580.14 Methods for sampling and analysis of ambient air – Meteorological monitoring for ambient air quality monitoring applications.

AS 4323.1 means the Australian Standard AS 4323.1 Stationary source emissions – Method 1: Selection of sampling positions.

AS/NZS 5667.11 means the Australian/New Zealand Standard AS/NZS 5667.11 Water quality – Sampling – Part 11: Guidance on sampling groundwaters.

Calendar Year means a 12 month period commencing from 1 January to 31 December.

CEMS means continuous emissions monitoring system.

CEMS Code means the current version of the *Guideline: Continuous Emission Monitoring System (CEMS) Code for Stationary Source Air Emissions*, Department of Environment Regulation, Government of Western Australia.

CEO for the purposes of notification means:

Chief Executive Officer
Department Div.3 Pt.V EP Act
Locked Bag 10
Joondalup DC WA 6919
info@dwer.wa.gov.au

Condition means a condition to which this Licence is subject under s 62 of the EP Act.

Department means the department established under s.35 of the Public Sector Management Act 1994 and designated as responsible for the administration of Division 3 Part V of the Environmental Protection Act 1986.

Discharge has the same meaning given to that term under the EP Act.

Emission has the same meaning given to that term under the EP Act.

Environmental harm has the same meaning given to that term under the EP Act.

EP Act means the *Environmental Protection Act* 1986 (WA).

EPP means Environmental Protection (Kwinana)(Atmospheric Wastes) Policy 1999.

General Description means the description of activities and operations carried out on the Premises as set out in Schedule 2 of this Licence.

Inert Waste Type 1 takes the meaning in the *Landfill Waste Classification and Waste Definitions 1996* (as amended), December 2009.

Licence refers to this document, which evidences the grant of Licence by the CEO under s 57 of the EP Act, subject to the Conditions.

Licensee refers to the occupier of the premises being the person to whom this Licence has been granted, as specified at the front of this Licence.

Material environmental harm has the same meaning given to that term under the EP Act.

Monthly means that monitoring is undertaken at least 15 days apart.

NATA means the National Association of Testing Authorities, Australia.

NATA accreditation means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis.

Pollution has the same meaning given to that term under the EP Act.

PM means particulate matter.

PM_{2.5} means particulate matter with an aerodynamic diameter of less or equal to 2.5µm;

PM₁₀ means particulate matter with an aerodynamic diameter of less or equal to 10µm;

Premises refers to the premises to which this Licence applies, as specified at the front of this Licence and as shown on the map in Schedule 1 to this Licence.

Quarterly means that monitoring is undertaken at least 45 days apart.

RATA means relative accuracy test audit.

L4533/1967/15 File No: DER2015/000597

Date of last amendment: 09/03/2022

Relevant Determination means a determination under clause 7(3) of the EPP, determining the sulfur dioxide limits for the licensee.

Reliable Data in relation to stack emissions monitoring, ambient air monitoring and meteorological monitoring systems in Schedule 5 means to provide accurate, precise and representative data for at least 90% of the time over any interval of a calendar month and for at least 95% of the time over any interval of 365 days.

Serious environmental harm has the same meaning given to that term under the EP Act.

STP means standard temperature and pressure (0°Celsius and 101.325 kilopascals respectively);

TSP means Total Suspended Particulate Matter;

Unreasonable emission has the same meaning given to that term under the EP Act.

USEPA means the United States (of America) Environmental Protection Agency.

Usual working day means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia;

VDI 3940-2:2006 means Vereins Deutscher Ingenieure (VDI) 3940-2:2006 Measurement Of Odour Impact By Field Inspection - Measurement Of The Impact Frequency Of Recognizable Odours - Plume Measurement

VDI 3940-3:2010 means Vereins Deutscher Ingenieure (VDI) 3940-3:2010 Measurement Of Odour Impact By Field Inspection - Determination Of Odour Intensity And Hedonic Odour Tone

VOC means volatile organic compounds, including but not limited to reduced sulfur compounds.

Waste has the same meaning given to that term under the EP Act.

Interpretation

In this Licence:

- (a) the words 'including', 'includes' and 'include' will be read as if followed by the words 'without limitation';
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a Condition, each row in a table constitutes a separate Condition; and
- (d) any reference to an Australian or other standard, guideline or code of practice in this Licence means the version of the standard, guideline or code of practice in force at the time of granting of this Licence and includes any amendments to the standard, guideline or code of practice which may occur from time to time during the course of the Licence.

L4533/1967/15 File No: DER2015/000597

Schedule 1: Plans

Premises Plan A

The Premises and Ambient Monitor Installation Locations are shown in the plan below. The pink line depicts the boundary to the Premises and the yellow hatched areas depict locations for locating ambient monitors.





NB: Russell Road and Railway are not part of the Premises

Premises Plan B

The Infrastructure is shown in the plan below.





Premises Plan C

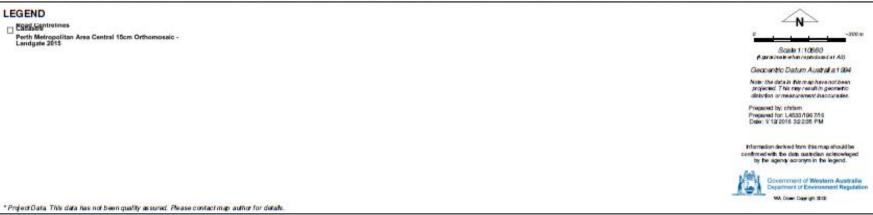
The Groundwater Monitoring Points are shown in the plan below.



Premises Plan D

The discharge to air points are shown in the plan below.





Schedule 2: General Description

At the time of assessment, the following activities and operations were considered in the determination of the risk and related conditions for the Premises.

The activities on the Premises constitute those activities prescribed in Schedule 1 of the *Environmental Protection Regulations 1987* as:

- Category 12 Screening etc. of material;
- Category 43 Cement of lime manufacturing;
- Category 61A Solid waste facility; and
- Category 63 Class I inert landfill.

Site layout

The infrastructure and equipment are set out on the Premises in accordance with the site layout specified on the plans in Schedule 1.

Schedule 3: Point Source Monitoring

Point Source Monitoring Program

Table 7: Point source monitoring requirements - Kiln 3 and Kiln 4

| Discharge Point(s) ¹ | Parameter | Method ^{2,3} | Units ⁴ | Minimum Averaging Sampling Period | Frequency |
|------------------------------------|--|------------------------------|--------------------|--|-----------|
| | Volumetric Flowrate | USEPA Method 2 | m³/s | N/A | |
| | СО | USEPA Method 10 | mg/m³ and g/s | 1 minute averages over 30 minutes | |
| | SO ₂ | USEPA Method 6C | mg/m³ and g/s | 1 minute averages over 30 minutes | Weekly |
| | NO _x | USEPA Method 7E | mg/m³ and g/s | 1 minute averages over 30 minutes | |
| Kiln 3 Stack and Kiln 4 | Total Reduced Sulfur | USEPA 16 or 16C | mg/m³ and g/s | 1 minute averages over 30 minutes | |
| Stack | VOCs | USEPA Method 18 | mg/m³ and g/s | 30 minutes | |
| | Acid Gases; Hydrogen Chloride and Hydrogen Fluoride | USEPA Method 26 or 26A | mg/m³ and g/s | 60 minutes | |
| | Metals – Mercury, Thallium, Cadmium, Antimony. Arsenic. Lead, Total Chromium, Cobalt, Copper, Manganese and Nickel | USEPA Method 29 | mg/m³ and g/s | 60 minutes | Annually |

- 1: Monitoring only required on 'active' kilns as determined by conditions 3 and 4;
- 2: Duplicate runs to be conducted consecutively on same sampling day;
- 3: Where USEPA methods refer to USEPA Method 1 for the sampling plane, this should be read as a referral to AS/NZS 4323.1:2001; and
- 4: Concentrations to be corrected to **STP** at 10% oxygen on a dry basis.

Table 8: Point source monitoring requirements - Kiln 5 and Kiln 6

| Discharge Point(s) | Parameter | Method ^{1,2} | Units ³ | Minimum Averaging Sampling Period | Frequency |
|-----------------------|--|------------------------------|--------------------|--|---|
| | Volumetric Flowrate | USEPA Method 2 | m³/s | N/A | Quarterly with |
| | со | USEPA Method 10 | mg/m³ and g/s | 1 minute averages over 30 minutes | the exception of CO, VOCs and Total Reduced |
| | SO ₂ | USEPA Method 6C | mg/m³ and g/s | 1 minute averages over 30 minutes | Sulfur that are weekly from November to April inclusive |
| Kiln 5 Stack | NO _x | USEPA Method 7E | mg/m³ and g/s | 1 minute averages over 30 minutes | until the installation and commissioning of CEMS in accordance with condition 8 |
| | Total Reduced Sulfur | USEPA 16 or 16C | mg/m³ and g/s | 1 minute averages over 30 minutes | |
| and Kiln 6 Stack | VOCs | USEPA Method 18 | mg/m³ and g/s | 30 minutes | |
| | Acid Gases; Hydrogen Chloride and Hydrogen Fluoride | USEPA Method 26 or 26A | mg/m³ and g/s | 60 minutes | |
| | Metals – Mercury, Thallium, Cadmium, Antimony. Arsenic. Lead, Total Chromium, Cobalt, Copper, Manganese and Nickel | USEPA Method 29 | mg/m³ and g/s | 60 minutes | Annually |

Duplicate runs to be conducted consecutively on same sampling day;
 Where USEPA methods refer to USEPA Method 1 for the sampling plane, this should be read as a referral to AS/NZS 4323.1; and

^{3:} Concentrations to be corrected to STP at 10% oxygen on a dry basis.

CEMS Monitoring Program

Table 9: CEMS requirements

| Discharge Point ¹ | Parameter ^{2,3} | Units | Averaging Period | Method | Required Availability |
|--|---|--|--------------------|-----------|--------------------------|
| Kiln 3 | Volumetric Flow Rate | m ³ /s | | | - |
| Stack, Kiln 4 Stack, Kiln 5 Stack and Kiln 6 | PM | Optical density converted to mg/m ³ and g/s | CO minute | | ≥90% of the time |
| Stack | NO _x SO ₂ CO | | 60-minute clock | CEMS Code | per Calendar Month |
| Kiln 5 | O ₂ | mg/m³ and | | | |
| Stack and Kiln 6 Stack | Total Reduced Sulfur (as SO ₂) | g/s | | | |

- 1: Monitoring only required on 'active' kilns as determined by condition 3; 2: TRS, O₂, and CO monitoring to commence following completion of condition 8 and 3: Concentrations to be corrected to STP at 10% oxygen on a dry basis.

Table 10: Air monitoring limits

| Discharge Point | Parameter | Averaging Period | Limit (mg/m³) | |
|-----------------|-----------|------------------|---------------|--|
| Kiln 3 Stack | | | 150 | |
| Kiln 4 Stack | PM | 60 minute clock | 150 | |
| Kiln 5 Stack | | | 50 | |
| Kiln 6 Stack | | | | |

Schedule 4: Ambient Monitoring

Table 11: Ambient monitoring program

| Monitoring Point and Reference | Parameters | Method ¹ | Units | Averaging Period |
|--|---|---------------------|----------------------|---------------------|
| A. (Lot 450) Opposite TAFE C. Britannia Avenue D. South Coogee Primary School E. Water Corporation | TSP, PM ₁₀ , PM _{2.5} | OSIRIS | μg/m³ | 1-hour and |
| AM1 ² AM2 ² AM3 ² AM4 ² AM5 ² | PM ₁0 | AS/NZS 3580.9.11 | | 24-hour |
| Weather station | Wind Speed Wind Direction Air Temperature | AS/NZS 3580.14 | m/s Degrees °C | |

Notes 1: Monitors are to be maintained and operated in accordance with the provisions of specified methodology 2: Following installation of ambient monitors required by condition 23.

Table 12: Ambient monitor requirements

| Monitoring Point | Parameters | Required Data Availability |
|--------------------------------|---|--------------------------------------|
| A. (Lot 450) Opposite TAFE | | |
| C. Britannia Avenue | TCD DM DM | |
| D. South Coogee Primary School | TSP, PM ₁₀ , PM _{2.5} | |
| E. Water Corporation | | |
| AM1 ¹ | | >000/ of the time per Colondar |
| AM2 ¹ | DM | ≥90% of the time per Calendar Month |
| AM3 ¹ | PM ₁₀ | IVIOLITI |
| AM4 ¹ | | |
| AM5 ¹ | | |
| Weather station | Wind Speed, Wind | |
| | Direction, and Air | |
| | Temperature | |

Note 1: Following installation of ambient monitors required by condition 23.

Table 13: Ambient monitoring limits and response levels

| Parameter | Limit (µg/m³) | Averaging Period |
|------------------|------------------------|------------------|
| TSP | 260 | 24-hour |
| PM ₁₀ | 50 | 24-110u1 |
| Parameter | Response level (µg/m³) | Averaging Period |
| TSP | 150 | 1 hour |
| PM ₁₀ | 90 | 1-hour |

^{2.} I ollowing installation of ambient monitors required by condition

Table 14: Management Response

| Site Location | Management Actions ¹ |
|----------------------------|---|
| LKD disposal area | cessation of dust generating activities; |
| | application of a dust suppressant agent; |
| | activation of perimeter water misting systems; and/or |
| | activation of sprinkler systems. |
| Landfill area ¹ | cessation of dust generating activities; |
| | application of a dust suppressant agent; |
| | reducing the tipping face height; |
| | reducing the linear length of the defined tipping area; |
| | activation of perimeter water misting systems; and/or |
| | activation of sprinkler systems. |
| Coal stockpile | cessation of dust generating activities; |
| Shell sand | application of a dust suppressant agent; |
| stockpile | activation of perimeter water misting systems; and/or |
| | activation of sprinkler systems. |
| Processing area – | cessation of dust generating activities; |
| low level sources | covering vehicular loads; |
| | reducing vehicular traffic and/or speeds; |
| | use of loading socks; |
| | activation of dust collector systems; and/or |
| | reducing flow rate. |
| Site wide | cessation of dust generating activities; |
| housekeeping | use of road sweepers; |
| | use of water carts; |
| | use of vacuum trucks; |
| | reducing vehicular traffic and/or speeds; and/or |
| | application of shell grit on unsealed haul roads. |
| Quarry | cessation of dust generating activities; |
| | use of water carts; |
| | application of a dust suppressant agent; and/or |
| <u> </u> | reducing the size of the exposed area. A undertake management actions in the Landfill area does not negate the requirements of |

Note 1: The requirement to undertake management actions in the Landfill area does not negate the requirements of condition 36 that applies at all times.

Schedule 5: Environmental Protection (Kwinana) (Atmospheric Wastes) Policy 1999

Implementation Conditions

SULFUR DIOXIDE EMISSION LIMITS - PLANT

 The Licensee must control the discharge of sulfur dioxide from the industrial sources listed in the Relevant Determination and located within the boundary of the licensed Premises to ensure that the quantities of sulfur dioxide discharged comply with the Relevant Determination.

MONITORING REQUIREMENTS OF THE EPP

- 2. The Licensee must establish and maintain a constant emissions monitoring system to monitor the discharge of waste gases from each of the sources listed in the Relevant Determination and located within the boundary of the licensed Premises.
- 3. The emissions monitoring system must measure or otherwise estimate using approved procedures the following quantities for each specified source:
 - (a) Mass emission rate of sulfur dioxide in g/s;
 - (b) Total volume emission rate of waste gases in m³/s; and
 - (c) Density of the waste gases in g/m³.

AMBIENT SULFUR DIOXIDE MONITORING

4. The Licensee must cause to be undertaken a program to monitor the ambient concentration of sulfur dioxide at the following sites, as outlined in section 7.2 of EPA Bulletin 644 "Development of an Environmental Protection Policy for Air Quality at Kwinana" or otherwise as determined by the CEO.

Table 15: Ambient Monitoring Stations

| Site | Location | | |
|------|--|--|--|
| 4 | Western Power gas pumping station, Abercrombie Road, Kwinana | | |
| 5 | Proposed BP pumping station, Miguel Road, Cockburn | | |
| 8 | Tindal Avenue, Beeliar | | |

^{**}See note after condition 12**

- 5. Prior to the commissioning of ambient sulfur dioxide monitoring and data acquisition equipment the Licensee must obtain approval from the CEO for its use and the relevant procedures to be followed.
- 6. The Licensee must ensure that the approved monitoring equipment is operated and calibrated in accordance with approved procedures and is maintained so as to provide Reliable Data.

METEOROLOGICAL MONITORING

- 7. The Licensee must obtain meteorological data from a meteorological monitoring system comprised of approved instruments and data acquisition equipment, at each location at which sulfur dioxide concentrations are being monitored. The following meteorological parameters must be monitored at each location:
 - (a) Wind speed;
 - (b) Wind direction; and
 - (c) Air temperature.
- 8. The following additional meteorological parameters must be monitored at an approved site:
 - (a) Wind direction standard deviation;
 - (b) Differential air temperature;
 - (c) Relative humidity or a related parameter;
 - (d) Barometric pressure;
 - (e) Net radiation; and
 - (f) Rainfall.
- 9. The meteorological monitoring system must be maintained so as to provide Reliable Data.

REPORTING OF METEOROLOGICAL AND AMBIENT SULFUR DIOXIDE MONITORING DATA

- 10. The Licensee must provide to the CEO data from each of the meteorological and sulfur dioxide monitoring stations at which monitoring is occurring in accordance with conditions 5 and 7-9:
 - (a) The meteorological data must be provided as a time series listing on an approved computer-readable medium or via telemetry and in a format approved by the CEO.
 - (b) The sulfur dioxide data must be summarised in the form of one calendar month tables, one for each monitoring station, and must contain for each day in the one month period the following:
 - (i) daily average;
 - (ii) maximum one-hour average, which may span midnight; and
 - (iii) percentage data recovery for the day.
 - (c) The sulfur dioxide data from each monitoring station must be provided as timeseries records of the recorded sulfur dioxide data on an approved computerreadable medium or via telemetry and in a format approved by the CEO.
 - (d) The meteorological and sulfur dioxide monitoring data must be provided to the CEO no later than 14 days after the last day of the period to which the data relates or within such longer period of time as is approved by the CEO.
- 11. If the ambient sulfur dioxide concentration measured at any of the monitoring sites at which monitoring is occurring in accordance with conditions 4 to 9 exceeds the standard or limit for that site, for any of the averaging periods as established by the EPP, then the Licensee must advise the CEO that this has occurred within two working days. Further, the Licensee must provide in writing within five working days in the format approved in accordance with Condition 4 a listing of sulfur dioxide emissions from each source listed in the relevant determination and located within the boundary of the licensed premises, for the period which includes and extends one hour either side of the period in which the exceedance occurred.

L4533/1967/15 File No: DER2015/000597 12. As and when requested by the CEO the Licensee must provide in written form within five working days of that request, data from the meteorological and sulfur dioxide monitoring systems. The requested data must be provided as a time-series listing of the data in an approved format and must cover the period requested by the CEO.

Note on conditions 4 – 12

Without limiting the licensee's responsibility and obligation to fulfil all of the requirements for monitoring and reporting specified in conditions 4-12, the CEO will, if so requested by the Licensee, approve the monitoring and reporting functions being performed on behalf of the Licensee by a nominated agent, as part of a cooperative arrangement between industries. Notwithstanding this, advice on exceedances of the standard or limit together with sulfur dioxide emissions during those exceedances as required by conditions 10 to 12 must be provided directly by the Licensee.

Condition 4 requires that a total of three ambient sulfur dioxide monitoring stations are maintained in the relevant portion of the environment, pursuant to Clause 11(1)(b) of the EPP. Two of the monitoring stations are permanently located at sites 4 and 5. The third monitoring station must be relocated in accordance with condition 4. A period of one month is allowed for relocation of the monitoring station.

Schedule 6: Land and Groundwater

Infrastructure

Table 16: Infrastructure requirements for materials storage and treatment

| Infrastructure and Reference on Premises Plan B | Purpose | Material | Specifications |
|---|-----------------------|--|---|
| Artificial Wetland | Treatment and storage | Contaminated or potentially contaminated stormwater and wastewater generated on the | Primary Sump with concrete liner |
| | 3. | premises (excluding stormwater from the employee and | Secondary Sump with plastic liner |
| | | contractor carpark) | Wetland (including lagoon and billabong) with plastic liner |
| LKD Disposal Area | Disposal | Lime Kiln Dust, cement kiln dust, high alkaline dust or any other material collected from hoppers | None – Exhausted limestone quarry |
| Landfill | Disposal | Inert Waste Type 1 generated on the premises or at the Kwinana facility | None – Exhausted limestone quarry |
| Shell Sand Stockpile | Storage | Shell sand | None – in situ soils |
| Coal Stockpile | Storage | Coal | None – in situ soils |
| Clinker storage | Storage | Clinker | Shed |

Groundwater Monitoring

Table 17: Groundwater Monitoring Program

| Monitoring Bores and | Parameter ^{1,2,3} | Frequency |
|--|---|---|
| Reference on Premises Plan C | | |
| A, B, C, D, E, F, G, H, I2, M2, MB1, MB2, X, Y and Z(R). | Standing Water Level, pH, electrical conductivity, total dissolved solids and temperature | Monthly |
| L2 | Standing Water Level, pH, electrical conductivity, temperature, total dissolved solids and total alkalinity (as CaCO ₃) | Quarterly |
| | Metals: As, Cd, Cr(III), Cr(VI), Cu, Pb, Ni, Zn and Hg | |
| LKD Disposal Area: LKD1, LKD2, and LKD3 | Standing Water Level, pH, electrical conductivity, temperature, total dissolved solids and total alkalinity (as CaCO ₃) | |
| | Metals: As, Cd, Cr(III), Cr(VI), Cu, Pb, Ni, Zn and Hg | |
| Coal stockpile: CS1 and CS2 | Standing Water Level, pH, electrical conductivity, total dissolved solids, temperature, Sulfate and Polyaromatic Hydrocarbons | Quarterly commencing |
| | Metals: As, Cd, Cr(III), Cr(VI), Cu, Pb, Ni, Zn and Hg | within one month of installing bores in accordance with condition |
| Artificial Wetland: W1 and W2 | Standing Water Level, pH, electrical conductivity, total dissolved solids, temperature, total alkalinity (as CaCO3), Sulfate, Polyaromatic Hydrocarbons, Total Petroleum Hydrocarbons | 38 |
| | Metals: As, Cd, Cr(III), Cr(VI), Cu, Pb, Ni, Zn and Hg | |
| Shell Sand Stockpile: SS1 | Standing Water Level, pH, electrical conductivity, total dissolved solids and temperature | |

^{1:} pH, electrical conductivity, total dissolved solids and temperature to be determined at one meter intervals from the water's surface to the bottom of each bore. All other parameters to be measured from a discrete sample taken from the upper screened section of the monitoring bore.

^{2:} With the exception of Stand Water Level (m AHD), pH (no units), electrical conductivity (μ S/cm) and temperature (°C), parameters are to be reported in mg/L.

^{3:} MB1 not monitored for pH.

Schedule 7: Reporting Requirements

Table 18: Monthly Reporting Requirements

| Subject to Condition(s) | Requirements |
|-------------------------|--|
| 13 | Stack monitoring – weekly monitoring data ¹ |
| 7, 10, 11, 12 | CEMS data: |
| | (a) Monitoring data, provided in one minute and one hour averages; |
| | (b) Calibration and availability data, as required under Section 5 and 6 of the CEMS code; and |
| | (c) Correlation curve in accordance with the requirements of USEPA |
| | Performance specification 11 |
| 18A | Odour Assessment – Field Odour Survey parameters and reporting |
| | parameters |
| 25 and 28 | Ambient monitoring: |
| | (a) Data provided in one minute and one hour averages; |
| | (b) Calibration and availability data; and |
| | (c) Details of management actions undertaken including corrective actions |

Note 1: Summary and copies of original reports to be provided.

Table 19: Annual Reporting Requirements

| Condition | Requirements |
|-----------|---|
| 13 | Stack monitoring – data ¹ (excluding weekly monitoring data) |
| 39 | Groundwater monitoring: (a) Data; and (b) Review, assessment and interpretation of the data including comparison to historical trends |
| 41 and 42 | Complaints – summary of records and actions |

Note 1: Summary and copies of original reports to be provided.

Schedule 8: Discharges to Air (Low Level Sources)

| Minor Discharge Points | | | |
|------------------------|--------------|----------------------|--|
| MA Doc. No. | Plant No. | Unit Description | Customer Reference |
| CCL-035 | 4:004 | 64S-6-20 | PLANT 4:004 K3 & 4 |
| CCL-008 | 4:006 | DLMV 20 | PLANT 4:006 |
| CCL-036 | 4:026 | DCE DLM | PLANT 4:026 K3 & 4 |
| CCL-039 | 4:035 | A216F | PLANT 4:035, K3 & 4 |
| - | 4:043 | - | Kiln 2 cream hopper |
| CCL-098 | 4:050 | 100S-10-TR20 | PLANT 4:050 |
| CCL-009 | 4:180 | 16S-TR6-20 | PLANT 4:180 SILO K2 |
| CCL-020 | 4:367 | A216F | PLANT 4:367 KILN 3 & 4 |
| CCL-019 | 4:378 | A216FL | PLANT 4:378 SILO K3 & 4 |
| CCL-097 | 4:385 | - | PLANT 4:385 |
| CCL-104 | 4:466 | A340FLH POP TOP | KILN 4 |
| CCL-106 | 4:490 | A216FH | K4 HA HOPPER |
| CCL-007 | 4:478 | 36S-TR8-20 | PLANT 4:478 SILO K3 & 4 |
| CCL-022 | 6:354 | LUHR MWF 2.5/4.5/S.5 | PLANT 6:354 NORTH LUHR DUST COLLECTOR |
| CCL-023 | 6:356 | LUHR MWF 2.5/4.5/2.5 | PLANT 6:356 SOUTH LUHR DUST COLLECTOR |
| CCL-044 | 6:429 | DCE DLM | PLANT 6:429 CEMENT MILL |
| CCL-024 | 6:454 | LUHR MWF 2.5/6.5/2.5 | PLANT 6:454 WEST LUHR DUST COLLECTOR |
| CCL-025 | 6:456 | LUHR MWF 2.5/6.5/2.5 | PLANT 6:456 EAST LUHR DUST COLLECTOR |
| CCL-045 | 6:470 | 49S-TR10-20 | PLANT 6:470 CEMENT MILL |
| CCL-102 | 6:490 | 225S-TR12 POP TOP | PLANT 6:490 |
| CCL-103 | 6:491 | 31-6-200 | PLANT 6:491 |
| CCL-026 | 8:101 | DLM V2 | PLANT 8:101 SILO 1 |
| CCL-027 | 8:102 | DLM V2 | PLANT 8:102 SILO 1 |
| CCL-002 | 8:105 | DLMV 20 | PLANT 8:105 SILO 2 |
| CCL-001 | 8:106 | DLMV 20 | PLANT 8:106 SILO 2 |
| CCL-032 | 8:109 | DCE DLM | PLANT 8:109 SILO 3 |
| CCL-033 | 8:110 | DCE DLM | PLANT 8:110 SILO 3 |
| CCL-050 | 8:113 | DCE DLM | PLANT 8:113 SILO 4 |
| CCL-051 | 8:114 | DCE DLM | PLANT 8:114 SILO 4 |
| CCL-028 | 8:117 | DLMV2 | PLANT 8:117 SILO 5 |
| CCL-029 | 8:118 | DLMV2 | PLANT 8:118 SILO 5 |

| Minor Discharge Points | | | |
|------------------------|--------------|-------------------------|--------------------------------|
| MA Doc. No. | Plant No. | Unit Description | Customer Reference |
| CCL-030 | 8:119 | DLMV2 | PLANT 8:119 SILO 5 |
| CCL-031 | 8:120 | DLMV2 | PLANT 8:120 SILO 5 |
| CCL-012 | 8:121 | DLM | PLANT 8:121 SILO 6 |
| CCL-015 | 8:122 | DLMV 20 | PLANT 8:122 SILO 6 |
| CCL-052 | 8:126 | DCE DLM | PLANT 8:126 SILO 7 |
| CCL-005 | 8:125 | DLMV 20 | PLANT 8:127/125 SILO |
| CCL-053 | 8:133 | DCE DLM | PLANT 8:133 SILO 9 |
| CCL-054 | 8:134 | DCE DLM | PLANT 8:134 SILO 9 |
| CCL-055 | 8:137 | DCE DLM | PLANT 8:137 SILO 10 |
| CCL-056 | 8:138 | DCE DLM | PLANT 8:138 SILO 10 |
| CCL-004 | 8:141 | DLMV 20F | PLANT 8:141 SILO 11 |
| CCL-057 | 8:142 | DCE DLM | PLANT 8:142 SILO 11 |
| CCL-013 | 8:143 | DLM | PLANT 8:143 SILO 11 |
| CCL-058 | 8:144 | DCE DLM | PLANT 8:144 SILO 11 |
| CCL-059 | 8:145 | DCE DLM | PLANT 8:145 SILO 12 |
| CCL-060 | 8:149 | DCE DLM | PLANT 8:149 SILO 13 |
| CCL-016 | 8:150 | DLM | PLANT 8:150 SILO 13 |
| CCL-061 | 8:151 | DCE DLM | PLANT 8:151 SILO 13 |
| CCL-062 | 8:152 | DCE DLM | PLANT 8:152 SILO 13 |
| CCL-063 | 8:153 | A216FL | PLANT 8:153 SILO 15 |
| CCL-064 | 8:154 | A216FL | PLANT 8:154 SILO |
| CCL-065 | 8:155 | A216FL | PLANT 8:155 SILO |
| CCL-066 | 8:156 | A216FL | PLANT 8:156 SILO |
| CCL-067 | 8:161 | DCE DLM | PLANT 8:161 SILO 18 |
| CCL-068 | 8:163 | A165FL | PLANT 8:163 SILO 19 |
| CCL-069 | 8:200 | 25S-TR10-20 | PLANT 8:200 SILO 1-4 |
| CCL-070 | 8:420 | A141FL | PLANT 8:420 |
| CCL-071 | 8:431 | A141FL | PLANT 8:431 |
| CCL-073 | 8:605 | 100S-TR10-20 | PLANT 8:605 OLD PACKING PLANT |
| CCL-074 | 8:706 | DCE DLM | PLANT 8:706 RAIL LOADOUT |
| CCL-075 | 9:046 | DCE SHAKER 29 POCKET | PLANT 9:046 NEXT TO K5 EAST |
| CCL-076 | 9:071 | 100S-TR10-20 | PLANT 9:071 LIME SILO |
| CCL-077 | 9:072 | 100S-TR10-20 | PLANT 9:072 SILO LOAD OUT LIME |
| CCL-078 | 9:087 | A216FL | PLANT 9:087 LIME SILO NO. A |

| Minor Discharge Points | | | |
|------------------------|--------------|---------------------------|--|
| MA Doc. No. | Plant No. | Unit Description | Customer Reference |
| CCL-094 | 9:088 | 42R-8-20 | PLANT 9:088 SILOS |
| CCL-079 | 9:089 | DCE DLM | PLANT 9:089 CONVEYOR TO SILOS A,B,C,D |
| CCL-080 | 9:094 | 81S-TR10-20 | PLANT 9:094 KILN 3 & 4 TRANSPORT SYSTEM |
| CCL-014 | 9:204 | 100S-TR8-20 | PLANT 9:204 |
| CCL-095 | 9:210 | DLMV 20 | PLANT 9:206/9:210 |
| CCL-082 | 9:211 | 81S-TR10-20 | PLANT 9:211 LIME TRANSPORT NEXT TO K5 |
| CCL-083 | 9:214 | 168S-TR10-20 | PLANT 9:214 NEXT TO K5 |
| CCL-084 | 9:216 | DCE DLMV 20/10F6 | PLANT 9:216 SILO 9:217 |
| CCL-101 | 9:301 | DCE DLM | LIME VAC. SYSTEM |
| CCL-085 | 9:334 | 640S-TR12-20-HR C/LESS | PLANT 9:334 NEXT TO CONTROL K5 |
| CCL-086 | 9:689 | A165FL | PLANT 9:689 LKD HOPPER K5 & 6 |
| CCL-096 | 9:699 | - | PLANT 9:699 |
| CCL-011 | 9:760 | DF 6.0/5.0/2.3 | PLANT 9:760 KILN 6 |
| CCL-010 | 9:804 | 100S-TR10-20 | PLANT 9:804 KILN 6 |
| CCL-088 | 9:831 | LUHR DVF | PLANT 9:831 SILO |
| CCL-003 | 9:832 | LUHR DVF | PLANT 9:832 REJECT SILO K6 |
| CCL-089 | 9:841 | LUHR DVF | PLANT 9:841 K5 & 6 SILO |
| CCL-090 | 9:842 | LUHR DVF | PLANT 9:842 K5 & 6 SILO |
| CCL-091 | 9:843 | LUHR DVF | PLANT 9:843 K5 & 6 SILO |
| CCL-092 | 9:930 | LUHR DVF | PLANT 9:930 50 TON SILO RAIL |
| CCL-093 | 9:931 | LUHR DVF | PLANT 9:931 50 TON SILO RAIL |