YANCOAL
兖煤澳大利亚有限公司
MOOLARBEN COAL

Plan – Pollution Incident Response Management

Complex

CONTENTS

FOR POLLUTION INCIDENT RESPONSE FLOW CHART AND NOTIFICATION PROCEDURE REFER TO PAGE 10.

1. PURPOSE

The *Protection of the Environment Legislation Amendment Act 2011* (POELA Act) requires holders of an Environment Protection Licence to prepare and implement a Pollution Incident Response Management Plan (PIRMP).

2. SCOPE

This PIRMP has been prepared by MCO, as holder of Environment Protection Licence 12932 (EPL) in accordance with Part 5.7A of the *Protection of the Environment Operations Act 1997 (*POEO Act*)* and Part 3A of the *Protection of the Environment Operations (General) Regulation 2009 (*Regulation). EPL 12932 covers the following scheduled activities:

1. Coal Works;
2. Mining for Coal; and,
3. Extractive activities.

The definition of a pollution incident, as taken from the guideline developed by the NSW Environment Protection Authority (EPA) titled *Environmental Guidelines: Preparation of Pollution Incident Response Management Plans* (NSW EPA, 2012), is:

- *Pollution incident* means an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise.

A pollution incident is required to be notified if there is a risk of 'material harm to the environment', which is defined in section 147 of the *POEO Act* as:

(a) harm to the environment is material if:
  (i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or
  (ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding $10,000 (or such other amount as is prescribed by the regulations), and
(b) loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment.

MCO is required to report pollution incidents *immediately* to the EPA, NSW Health, the Department of Planning and Environment, Fire and Rescue NSW, WorkCover and the Mid-Western Regional Council. 'Immediately' has its ordinary dictionary meaning of promptly and without delay.

3. ACCOUNTABILITIES AND RESPONSIBILITIES

Role	Accountabilities / Responsibilities
General Manager	• Provide adequate resources to implement the requirements of the PIRMP. • Notify Yancoal corporate of Pollution Incidents

Role	Accountabilities / Responsibilities
Environment and Community Manager (ECM)	• Notify relevant authorities and potentially affected external stakeholders of pollution incidents • Coordinate the response to pollution incidents • Prepare reports relating to pollution incidents • Provide all employees and contractors adequate training in environmental awareness, legal responsibilities, and pollution incident response • Coordinate relevant reviews of the PIRMP
Environment and Community Advisor (ECA)	• Assist with the response to pollution incidents • Assist with the notification and reporting of pollution incidents
Department Managers	• Notify relevant authorities and potentially affected external stakeholders pollution incidents • Coordinate the response to pollution incidents
Department Supervisors	• Notify the ECM and department manager of pollution incidents • Coordinate the response to pollution incidents • Undertake routine area inspections, including water management structures and hydrocarbon containment areas
Health, Safety and Training Department	• Maintain the Emergency Response Team • Maintain records of training relating to the PIRMP • Maintain Emergency Response plans • Maintain Chemical registers
All employees and contractors	• Report pollution incidents and potential pollution incidents to their immediate supervisor • Ensure all chemicals, hydrocarbons and hazardous substances are stored and handled appropriately.

4. OVERVIEW

This PIRMP will immediately be implemented by MCO in the event of a pollution incident.

Specifically, the objectives of the PIRMP are:

- to provide comprehensive and timely communication about a pollution incident to staff at the premises, the Environment Protection Authority (EPA), Mid-Western Regional Council, New South Wales (NSW) Ministry of Health, Department of Planning and Environment, WorkCover NSW, Fire and Rescue NSW and people outside the facility who may be affected by the impacts of the pollution incident;
- to minimise and control the risk of a pollution incident at the facility by identifying risks and developing actions to minimise and manage those risks; and
- to adequately implement the plan by training staff, identifying persons responsible for implementing the plan, and regularly testing the plan for accuracy, currency and suitability.

A hard copy of the PIRMP will be made available to any authorised officer on request. The PIRMP will be available to any person who is responsible for implementing the plan. The latest version of the PRIMP is available on the MCO website at: “https://www.yancoal.com.au/document/pollution-incident-response-management-plan-2/"

5. RISK ANALYSIS

Site Wide Broad Brush Risk Assessments (BBRA) were completed during 2019, to identify risks in all consequence categories including: “Harm to People”, “Asset Damage and Other Consequential Losses”, “Environment Impact” and “Impact on Reputation”. The BBRA was coordinated by an independent facilitator and undertaken with representatives from all operations and departments.

The BBRA identified the following activities as high or extreme risks:

- water management;
- blast fume management;
- spontaneous combustion;
- bushfire management; and
- security of site.

The following activities have been identified as high risk potential pollution incidents at MCO:

- unauthorised discharge of water (sediment laden and/or contaminated) from site;
- discharge of hydrocarbons from site; and
- blast fume impact on people (to maintain consistency with industry standards this PIRMP relates to blasts with fume leaving site at Level 3, 4 and 5 fume as identified in **Error! Reference source not found.1**).

The activities described above are discussed further in **Section 6**.

Level	Typical Appearance
Level 0 No NOx gas	
Level 1 Slight NOx gas	
1A Localised	
1B Medium	
1C Extensive	
Level 2 Minor yellow/orange gas	
2A Localised	
2B Medium	
2C Extensive	
Level 3 Orange gas	
3A Localised	
3B Medium	
3C Extensive	
Level 4 Orange/red gas	
4A Localised	
4B Medium	
4C Extensive	
Level 5 Red/purple gas	
5A Localised	
5B Medium	
5C Extensive	

Figure 1: Fume Classification (AEISG, 20211)

5.1 Inventory of Potential Pollutants

All Chemicals used are recorded on a register 'ChemAlert' which is available through the Yancoal site intranet. All chemicals are accompanied by the relevant Safety Data Sheet (SDS) as required by Work Health and Safety regulations. MCO notifies WorkCover of Schedule 11 chemicals as required by legislation and maintains a Licence to Store Explosives with WorkCover NSW. The locations of dangerous goods including fuels and explosives are described in the Plan- Dangerous Goods Management and are shown in **Appendix 1**. Quantities of dangerous goods are shown in **Appendix 2**.

All chemicals, explosives and fuels are stored in accordance with statutory requirements and relevant Australian Standards.

6. CONTROL MEASURES

MCO has implemented a number of management measures including standard work practices, hazard reporting, PRIDE's and site-specific management plans (**Section 9.1**) to minimise potential impacts and reduce the likelihood of a potential pollution incident occurring on site. The specific measures used to reduce the likelihood of the high-risk potential pollution incidents are described below.

A description of the safety equipment and other devices that are used to minimise the risks to human health to contain or control a pollution incident are also detailed below.

An up-to-date inventory including SDS's of hazardous chemicals and potential pollutants stored on site is available on 'ChemAlert', accessed via the Yancoal intranet. Personal Protective Equipment (PPE) for the safe handling of all chemicals stored on site is available at the MCO store warehouses.

6.1 Water Management

A Water Management Plan (WAMP) has been prepared by MCO to satisfy the requirements under NSW Project Approval (05_0117 and 08_0135). The WAMP applies to all employees and contractors at the Moolarben Coal Complex and covers all areas within the Stage 1 and Stage 2 Project boundaries (as defined in Appendix 2 of NSW Project Approval 05_0117 and 08_0135).

To assist in the management of surface water and groundwater and minimise the risk of unauthorised discharges from site the WAMP includes the following:

- Site Water Balance (SWB) (including an outline of the water management system).
- Surface Water Management Plan (SWMP).
- Ground Water Management Plan (GWMP)
- A procedure for the management and reporting of incidents, complaints and non-compliances.

Further management measures outlined in the SWMP include:

- Minimisation of water use on site;
- Water sharing agreements with neighbouring mines;
- Designing infrastructure in accordance with relevant approvals and guidelines;
- Rehabilitation and management of Final Voids;
- Procedures for In-Pit emplacement of tailings and acid forming materials; and
- Storage of chemical and hydrocarbons.

6.2 Hydrocarbon Management

Hydrocarbons at MCO are stored in bunded areas in accordance with *AS1940: Storage and Handling of Flammable and Combustible Liquids*. All major storage locations are located within the mine water catchment of the site so that if the containment is breached the hydrocarbons will be captured in the water management system.

Hydrocarbon storage areas and spill kits are inspected on a regular basis by operational personnel and the Waste Management Contractor. Spill kits are stored in high-risk locations such as hydrocarbon storage areas and generally contain the following items:

- absorbent material;
- absorbent pads; and
- absorbent booms.

MCO has a dedicated Emergency Response Team (ERT) available to assist with the control and clean-up of hydrocarbon spills. MCO have a contract with a waste management provider who can supply trucks to assist with the clean-up of large spills including incidents where hydrocarbons are released to water. As part of the induction process for all employees and contractors, hydrocarbon management and the response to spills is discussed.

6.3 Blast Management

MCO have developed an approved Blast Management Plan (BMP) that describes the management of blasting associated with open cut operations (including management of overpressure, vibration, flyrock and fume) at the Moolarben Coal Complex in accordance with Project Approvals (05_0117 and 08_0135).

The approved Blast Management Plan includes the following management measures:

- areas of the mine that present an elevated fume risk;
- methods used on site to reduce the generation of blast fume (e.g. product selection);
- scheduling and timing of shots to reduce the impact of fume on the environment and local communities; and
- collection of data and the associated reporting requirements.
- a minimum blast exclusion zone of 500m;
- assessment of wind conditions prior to the blast to identify personnel and community members that may be impacted;
- radio contact on site to evacuate work areas if required;
- adequate design of the blast (right product for the conditions); and
- notifications to external stakeholders prior to blasting.

7. EMERGENCY RESPONSE

The following details the incident response and notification procedure. The procedure is detailed in **Figure 2**.

7.1 During a Pollution Incident

The PIRMP will be activated when:

- An MCO employee, contractor or supplier becomes aware of a pollution incident or potential pollution incident that has caused, or threatens to cause, material harm to the environment; or

- A notification from an external party provides evidence that a pollution incident or potential pollution incident may have occurred at MCO.

Upon activation of the PIRMP the following internal and external notification process is to be followed:

1. Person identifies the potential pollution incident.
2. Report potential pollution incident to supervisor immediately.
3. If there is an immediate threat to life or property, declare an emergency situation, activate the ERT and contact 000 immediately. Refer to First Response Plans and Plan-Emergency Principal Control Plan.
4. Supervisor reports incident to Environment and Community Manager immediately. Where not available, contact authorised persons listed in Table 1 and provide the following details:
    a. Exact location of incident
    b. Date, time and nature of incident
    c. Extent of incident
    d. Actions taken
    e. Whether emergency services are required, or have been contacted.
5. Authorised person (**Error! Reference source not found.**) will provide notifications to relevant authorities (**Error! Reference source not found.**) immediately on becoming aware of the Pollution Event in accordance with Section 7.2 below. Relevant Authorities are to be provided with factual information.
6. Where other stakeholders may be impacted (e.g. community) or where directed by the EPA, other stakeholders are to be contacted.

7.2 Notification of a Pollution Incident

7.2.1 Authorities

If a pollution incident on site occurs where material harm to the environment is caused or threatened, MCO must immediately implement this PIRMP in conjunction with the Plan- Emergency Principal Control Plan. The authorities listed in **Table 1** shall be notified immediately of the pollution incident by an authorised person (**Table 2**). All pollution incidents causing or threatening material harm to the environment are to be immediately notified in accordance with the flowchart in **Figure 2**.

Table 1: Contact Details for Authorities

Order	Name	Contact Details
1.	Fire and Rescue NSW	000 - Emergency Non-Emergency after hours duty commander - 0476 803 402
2.	Environment Protection Authority	131 555
3.	NSW Ministry of Health via local Public Health Unit	Public Health Officer 1300 066 055
4.	Safe Work	13 10 50
5.	Mid-Western Regional Council (MWRC)	As per MWRC website all notification of emergencies need to be made to 000 Also 02 6378 2850 or 1300 765 002
6.	Department of Planning, Housing and Infrastructure	1300 420 596 Advised that notifications can be made through the Portal.
7.	Department of Regional NSW– Resources Regulator	1300 814 609

Table 2: Contact Details for People Authorised to Notify External Parties

Position	Contact	Contact Details
General Manager	Brian Wesley	0419 970 894
Environment and Community Manager	Ian Flood	0417 049 493
Underground Operations Manager	Elliot Baume	0405 0676 00
Open Cut Operations Manager	Tim Oliphant	0447 091 333
Environment and Community Superintendent	Rebecca Shanks	0438 662 577
Health Safety and Training Manager	Mat Cooper	0408 177 622
CHPP Manager	Jonathan Chapman	0419 641 157

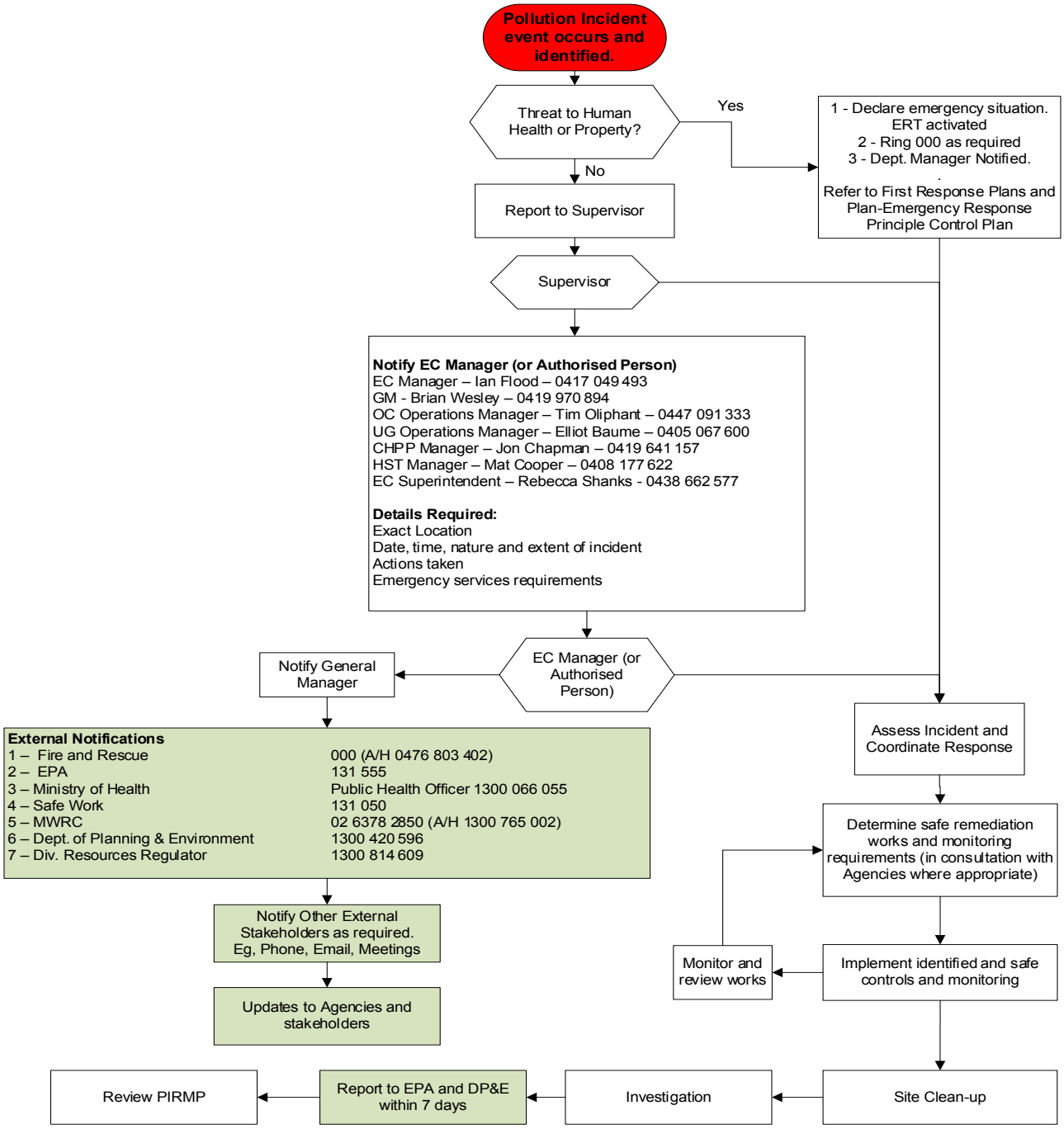
7.2.2 Community

Any pollution incident causing or threatening material harm to the environment will be communicated to all potentially impacted stakeholders as soon as practicable by an authorised person (listed in **Table 2**).
For water and hydrocarbon related pollution incidents the closest private water user downstream of the operations will be notified of the incident. Ongoing communication will continue until the incident has been controlled and impacts as a result of the incident have been rectified.
For a fume related incident (blast fume leaving the site boundary at level 3 or higher), MCO will endeavour to contact stakeholders within the fume path. Contact registers for stakeholders within the vicinity of MCO are maintained on site.
MCO will contact those affected by a pollution incident in conjunction with emergency services by either direct contact or telephone. Updates will be provided to the broader local community in affected areas via newsletters, information sheets, the MCO website (www.yancoal.com.au/our-sites/moolarben) or media statements. The method and content of communication will depend on the pollution incident and the actions required to protect human health.

7.3 Following a Pollution Incident

Following a pollution incident at MCO the following actions will be undertaken:

- Assessment of incident to determine necessary controls and remedial works. Remediation works may include:
  - Sampling and/or Monitoring
  - Installation of controls
  - Engagement of specialist consultants and/or contractors
  - Procurement of additional/replacement supplies (e.g. spill kit material)
  - Consultation with agencies or stakeholders.
- Remediation works as determined necessary in the assessment of the incident.
- Updates of Agencies and Stakeholders
- Internal investigation of the pollution incident;
- A detailed report of the pollution incident is to be provided to the Department of Planning and Environment (DP&E) and any relevant agencies within 7 days of the date of the incident as per Schedule 5 Condition 7 of Project Approval (05_0117) and Schedule 6 Condition 7 of Project Approval (08_0135);
- Submission of a report to EPA on the pollution incident outlining the following:
  - Date, time and nature of the pollution incident;
  - Identifying the cause (or likely cause) of the pollution incident;
  - Describing what action has been taken to date; and
  - Describing proposed measure to address the pollution incident.
- Participation in any external investigation of the pollution incident;
- Review of the PIRMP for effectiveness; and
- Communicate any changes of the PIRMP.



Information Collation

The following factual information is to be collated and provided during the notification:
Time, date, nature, duration and location of the incident.
Location of where pollution is occurring or is likely to occur.
If available:
Nature, calculated estimate of quantity or volume and concentration of any pollutants involved.
Circumstances in which the incident occurred (including the cause of the incident).
Actions taken or proposed to be taken to remediate the incident and any resulting pollution or threatened pollution.

Figure 2: Pollution Incident Response Flowchart

8. FAILURE TO COMPLY

MCO takes it responsibilities under the POEO Act seriously. Employees and contractors will be made aware of the penalties prescribed under the POEO Act relating to pollution incidents.

Table 3: Maximum Penalties for Failing to Comply

Penalty	Type of offence	Penalty for Corporations	Penalty for individuals
Tier 1	Wilful breach causing or likely to cause 'significant environmental harm', or death, serious injury or serious illness	$10,000,000	$2,000,000 and up to 7 years imprisonment.
	Negligent breach causing or likely to cause 'significant environmental harm', or death, serious injury or serious illness	$4,000,000	$1,000,000 and up to 4 years imprisonment
Tier 2	Failure to notify pollution incidents	$4,000,000 and $480,000 for each day the offence continues	$1,000,000 and $240,000 for each day the offence continues
	Catch-all (water, air, land and noise pollution offences)	$2,000,000 and $240,000 for each day the offence continues	$500,000 and $120,000 for each day the offence continues
	Unlawful transporting or depositing of waste		
	Unlawful use of place as a waste facility		
Tier 3	Tier 2 matters that have been designated in the Regulations as being capable of being dealt with by way of penalty notice	Penalty notice	Set by Regulations

Table 4: Penalty Notice Offences

Offence	Maximum penalty (corporation)	Maximum penalty (individual)
Polluting water/air/land (intentional)	$30, 000	$15,000
Failure to comply with prevention notice	$30,000	$,15,000
Emission of odours	$8,000	$4,000
Operation of plant – noise	$1,500	$750
Unlawful transporting or depositing of waste	$8,000	$4,000
Use of land as waste facility without lawful authority	$15,0000	$7,500
Failure to notify of pollution incidents	$30,0000	$15,000
Failure to prepare, implement, keep and test a PIRMP	$8,000 for each offence	$4,000 for each offence

9. INFORMATION, TRAINING AND COMMUNICATION

9.1 Training and Competency

The following actions will be undertaken to train personnel in the implementation of the PIRMP:

- Communication with employees and contractors informing them about the existence and purpose of the PIRMP in inductions;
- Notification of environmental incidents;
- Communication with relevant people outlining their role and responsibilities under the PIRMP; and

- Provide updates when the PIRMP is revised.

In addition to the above, the MCO ERT training schedule contains HAZMAT training for ERT members.

Records of training will be kept in accordance with the MCO training management system.

9.2 Consultation and Communication

This procedure will be consulted and communicated with all workers in accordance with the *Procedure - Communication and Consultation - MCO-SITE-7348*.

A copy of this plan will be maintained at the MCO premises so that it is readily available to those responsible for its implementation, and to an authorised officer on request.

Sections of this plan will be made available to members of the public on the MCO website www.moolarbencoal.com.au.

10. RELATED DOCUMENTS AND REFERENCE INFORMATION

10.1 Internal Documents

This PIRMP will from part of MCO's Emergency Response Management Plan. Additional MCO documentation relating to MCO's response to pollution incidents includes:

- Plan- Emergency Principal Control Plan;
- Plan- Dangerous Goods Management;
- Procedure- Risk Management;
- Procedure- Incident Response and Investigation;
- Plan - Yancoal Crisis Management;
- Environmental Management Strategy (EMS);
- Plan - Forward Program;
- Blast Management Plan (BMP);
- Air Quality Management Plan (AQMP);
- Rehabilitation Management Plan (RMP);
- Water Management Plan (WAMP), incorporating:
    - Site Water Balance (SWB);
    - Surface Water Management Plan (SWMP); and
    - Groundwater Management Plan (GWMP);
- Biodiversity Management Plan (BioMP);
- Heritage Management Plan (HMP); and,
- Waste Management Plan (WMP).

10.2 External Documents

- Protection of the Environment Legislation Amendment Act 2011 (POELA Act)
- Protection of the Environment Operations Act 1997 (POEO Act)
- Protection of the Environment Operations (General) Regulation 2009 (Regulation)
- Environmental Guidelines: Preparation of Pollution Incident Response Management Plans (NSW EPA, 2012)

11. MEASURE, MONITOR AND REVIEW

A copy of the PIRMP will be at all times kept at MCO and implemented in the case of a pollution incident. The PIRMP will be reviewed:

- within 3 months of any changes to licence conditions relating to pollution incidents;
- following a pollution incident at MCO;
- following an independent environmental audit which recommends changes to the PIRMP; and
- if there is a relevant change in technology or legislation.

The PIRMP will be tested regularly in such a manner as to ensure that the information included in the plan is accurate, up to date and is capable of being implemented in an effective manner. Testing will be undertaken by desktop simulation or using practical drills at the following intervals:

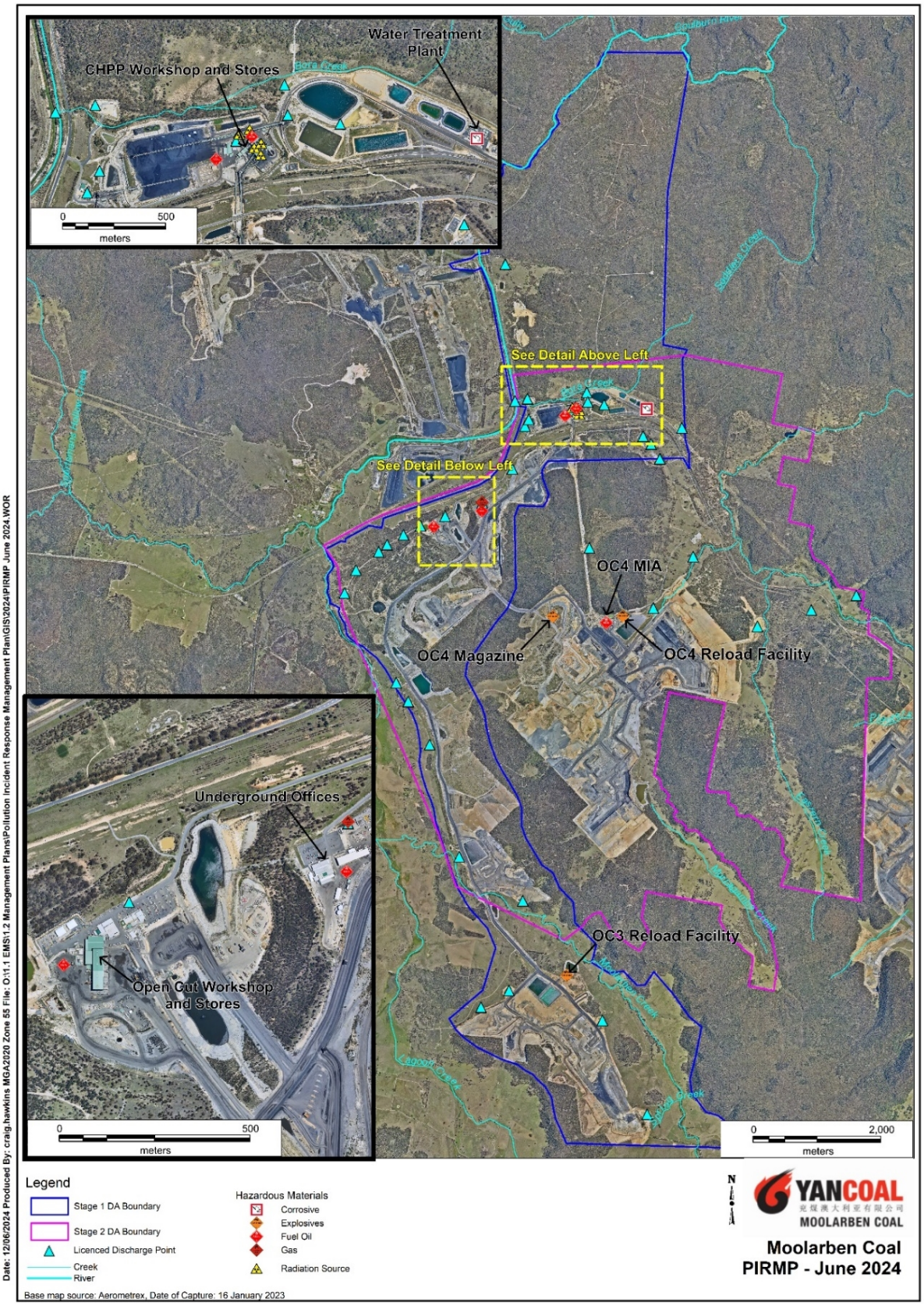
- at least once every 12 months; and
- within one month of activation of the PIRMP occurring.

12. REVISION HISTORY

Version	Section Amended / Detail	Date
1	Original Document	Aug 2012
2	Periodic Review	May 2014
3	Update to include both Stage 1 and Stage 2 of the project	Aug 2015
4	Testing and update Phone #s and chemical locations	Dec 2015
5	Testing and update Phone #s, chemical locations and UG1 Optimisation	May 2016
6	Test, update and addition of Underground Relocation of Magazine	Jun 2017
7	Update of Personnel, Chemicals	May 2018
8	Update of contacts and testing review.	Jul 2018
9	Test, update of personnel and site contacts	Jul 2019
10	Test, General Update	Mar 2020
11	Test, General Update	Dec 2020
12	Test, General Update	Dec 2022
13	Test, General Update	Jun 2023
14	Test, General Update	Jun 2024
15	General Update	Oct 2024
16	Test and update following activation	Dec 2024
17	Document control update of revision number	Mar 2025

13. APPENDICES

Appendix 1: Dangerous Goods Storage Location



Appendix 1: MCO Dangerous Goods Manifest

Summary information about classes of Dangerous Goods

Class	Packing Group	Maximum quantity Kg or L
2.1	N/A	4000
2.2/5.1	N/A	200
2.2 Other	N/A	550
2	N/A	400
Cryogenic Fluids	N/A	250
3	II	300
3	III	650
5.1 (UN 3375)	II	255000 L
5.1 (UN1942)	III	380000 kg
8	II	2050
8	III	50
9	III	600
C1	N/A	824000
C2	N/A	160648

Fuel and Explosives Manifest – Bulk Storages

Location	Tank Identifier	Dangerous goods					Tank	
		Shipping Name	Class	Sub Risk/s	UN No.	PG	Type	Capacity
O/C 1 Fuel Farm	TK4	Combustible Liquid C1 Automotive diesel fuel	C1	N/A	00C1	N/A	a/g	107,200L
	TK5	Combustible Liquid C1 Automotive diesel fuel	C1	N/A	00C1	N/A	a/g	107,200L
	TK6	Combustible Liquid C1 Automotive diesel fuel	C1	N/A	00C1	N/A	a/g	107,200L
O/C 4 Fuel Farm	918TK1	Combustible Liquid C1 Automotive diesel fuel	C1	N/A	00C1	N/A	a/g	104,500L
	918TK2	Combustible Liquid C1 Automotive diesel fuel	C1	N/A	00C1	N/A	a/g	104,500L
	918TK3	Combustible Liquid C1 Automotive diesel fuel	C1	N/A	00C1	N/A	a/g	104,500L
CHPP Reagents	FL2815	Combustible Liquid C1 NALCO 8836 PLUS	C1	N/A	N/A	N/A	a/g	33,600L
CHPP Fuel	FL2812	Combustible Liquid C1 Collector diesel fuel	C1	N/A	00C1	N/A	a/g	33,600L
	TNKU7403	Combustible Liquid C1 Automotive diesel fuel	C1	N/A	00C1	N/A	a/g	67,120L
Reload Facility OC3	ANE.3.01	Ammonim Nitrate	5.1		1942	III	Trailer	100,000kg
	ANE.3.02	Ammonim Nitrate emulsion	5.1	N/A	3375	II	a/g	60,000L
	ANE.3.02	Ammonim Nitrate emulsion	5.1	N/A	3375	II	a/g	60,000L
	FS.33.05	Combustible Liquid C1 Automotive diesel fuel	C1	N/A	00C1	N/A	a/g	60,000L
Explosives Reload	AN 1	Ammonium Nitrate	5.1		1942	III	Trailer	280,000kg
	TBM016	Ammonium Nitrate	5.1	N/A	1942	III	Transit Bin	94,000kg

Location	Tank Identifier	Dangerous goods					Tank	
		Shipping Name	Class	Sub Risk/s	UN No.	PG	Type	Capacity
Facility – OC4	ANE.4.01	Ammonium Nitrate Emulsion	5.1	N/A	3375	II	a/g	60,000L
	ANE.4.02	Ammonium Nitrate Emulsion	5.1	N/A	3375	II	a/g	60,000L
	ANE.4.03	Ammonium Nitrate Emulsion	5.1	N/A	3375	II	a/g	15,000L
	FS.33.05	Combustible Liquid C1 Automotive diesel fuel	C1	N/A	00C1	N/A	a/g	3,000L
UG Operation Offices	DG149901	Petroleum Gases, Liquefied	2.1	N/A	1075	N/A	UST	3, 000 Kg
	DG149902	Combustible Liquid C1 Automotive diesel fuel	C1	N/A	00C1	N/A	a/g	30,000L
CHPP Permanent Water Treatment Plant	TK8101	Sulphuric Acid	8	N/A	1830	II	Ixom Bullet - Self-bunded Tank	12,500L
	TK2002						Ixom Cube - IBC in Bund	1200L
	TK8201	Bisulphiyes, Aqueous Solution, N.O.S. (Contains Sodium Bisulphite)	8	N/A	2693	III	Ixom Bullet - Self-bunded tank	12,500L
	TK8301 TK2003	Mermguard AS 104	N/A	N/A	N/A	N/A	Ixom Cube - IBC in Bund	1200L
	TK8401	Citric Acid	N/A	N/A	N/A	N/A	Ixom Cube - IBC in Bund	1200L
	TK8501 TK8502 TK8503	Hypochlorite Solution	8	N/A	1791	II	Ixom Bullet - Self-bunded tank	47, 000L
	TK8601	Sodium Hydroxide Solution	8	N/A	1824	II	Ixom Bullet - IBC in Bund	10500L
	TK8701	Environmentally Hazardous Substance, Liquid N.O.S. (Contains 2.2-Dibromo-3-Nitrilopropionamide)	9	N/A	3082	III	Ixom Cube - IBC in Bund	1200L
	TK8801	Caustic Alkali Liquid, N.O.S. (Contains Alkyldimethylbenzyl Ammonium Chloride)	8	N/A	1719	II	Ixom Cube - IBC in Bund	1200L
	TK8901	PAC23	N/A	N/A	N/A		Ixom Bullet - Self-bunded tank	10500L
	TK2021 TK2022	Potassium Permanganate Solution					HDPE Tanks	25500 L
	TK2023	Potassium Permanganate	1Y		1490	II	Drums	20000 kg

Package Storage Locations

Other packaged dangerous goods

UN No.	Proper Shipping Name	Class	Product or common name	Normal quantities stored	Maximum amount stored
0042	Boosters	1.1D	Boosters	10,000kg	10,000kg
0065	Cord, Detonating	1.1D	Det Cord	200kg	200kg
0030	Detonators, Electronic for blasting	1.1B	Electronic detonators	12,000 No	12,000 No
0349	Articles, Explosives, N.O.S	1.4S	Articles, Explosive, N.O.S	200 No	200 No
0360	Detonator Assemblies, NonElectric for blasting	1.1B	Detonators	17,800 No	17,800 No
0241	Explosives Blasting Type E	1.1D	Senatel Permitted 1000	700 No	10,000 No
0456	Detonators Electric	1.1B/1.4S	Carrick II Detonator Series	500 No	10,000 No

Dangerous Goods Loaded onto Vehicles

2 x Mobile units, Class: 5.1, PG 11, Quantity, 25,000kg each. Located in Reload Facility when not required – ID T003 and T004.

Shipping Name	Class	Sub Risk/s	UN No.	PG	Type	Mobile Storage Identifier	Total Capacity
Ammonium Nitrate	5.1	N/A	1942	III	Stored in Mobile Units	BM195 BM214 BM270 BM292 BM293 BM207	7.5t 9.5t 9.5t 10.5t 10.5t 7.5t
Ammonium Nitrate Emulsion	5.1	N/A	1942	III	Stored in Mobile Units	BM195 BM214 BM270 BM292 BM293	11t 7.5t 7.5t 9.5t 9.5t