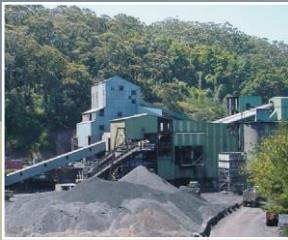


# METROPOLITAN COAL

## POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN





## METROPOLITAN COAL

## POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

### Revision Status Register

Section/Page/ Annexure	Revision Number	Amendment/Addition	Distribution	EPA Approval Date
All	PIRMP-R01-A	Original	EPA	
3.3, 8.3, 12		PIRMP 2020		

JUNE 2020

**TABLE OF CONTENTS**

1 INTRODUCTION .....1  
 1.1 PURPOSE AND SCOPE OF PLAN .....1  
 2 STRUCTURE OF PLAN .....6  
 3 NOTIFICATION OF A POLLUTION INCIDENT ..... 7  
 3.1 RESPONSIBILITIES AND DUTIES.....7  
 3.2 DEFINITION OF A POLLUTION INCIDENT..... 7  
 3.3 PROCESS FOR REPORTING A POLLUTION INCIDENT AND RELEVANT CONTACT DETAILS OF KEY INDIVIDUALS RESPONSIBLE FOR ACTIVATING PLAN, NOTIFYING AUTHORITIES AND MANAGING THE RESPONSE TO A POLLUTION INCIDENT ..... 7  
 4 INCIDENT RESPONSE AND POST-NOTIFICATION PROCEDURES ..... 9  
 5 COMMUNICATING WITH THE COMMUNITY AND MECHANISMS FOR PROVIDING EARLY WARNINGS AND REGULAR UPDATES TO PERSONS IN THE VICINITY OF THE SITE ..... 9  
 6 GENERAL HAZARDS TO HUMAN HEALTH OR THE ENVIRONMENT ASSOCIATED WITH THE ACTIVITY .....10  
 7 INVENTORY OF POTENTIAL POLLUTANTS .....10  
 8 RISK ASSESSMENT – LIKELIHOOD OF HAZARDS OCCURRING & THE SEVERITY OF HARM.....11  
 8.1 HOW IDENTIFIED RISKS TO HUMAN HEALTH CAN BE REDUCED ..... 11  
 8.2 PREEMPTIVE ACTIONS TO MINIMISE OR PREVENT ANY RISK OF HARM TO HUMAN HEALTH OR THE ENVIRONMENT ..... 12  
 8.3 SAFETY EQUIPEMENT / DEVICES USED TO MINIMISE RISK TO HUMAN HEALTH OR THE ENVIRONMENT AND TO CONTAIN OR CONTROL A POLLUTION INCIDENT ..... 12  
 9 NATURE AND OBJECTIVES OF STAFF TRAINING PROGRAMS ..... 14  
 10 MANNER IN WHICH THE PIRMP IS TO BE TESTED AND MAINTAINED..... 14  
 10.1 PIRMP REVIEW AND UPDATE ..... 14  
 10.2 AVAILABILITY OF PIRMP..... 15  
 11 POTENTIAL CONTINGENCY MEASURES .....16  
 12 FAILURE TO COMPLY.....16

TABLE OF CONTENTS CONTINUED

**LIST OF TABLES**

TABLE 1 POLLUTION PREVENTION EQUIPMENT INVENTORY ..... 12  
 TABLE 2 PENALTIES FOR FAILING TO COMPLY ..... 16

**LIST OF FIGURES**

FIGURE 1 ..... 2  
 FIGURE 2 ..... 3  
 FIGURE 2 A ..... 4  
 FIGURE 3 ..... 5  
 FIGURE 4 ..... 13

**LIST OF APPENDICES**

APPENDIX A      RISK ASSESSMENT  
                          RANKING MATRIX  
 APPENDIX B      POLLUTION INCIDENT NOTIFICATION FORM  
                          AUTHORITIES NOTIFICATION FORM  
                          POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN AUDIT FORM

## 1 INTRODUCTION

Metropolitan Collieries Pty Ltd (**Metropolitan Coal**) is a wholly owned subsidiary of Peabody Energy Australia Pty Ltd. Metropolitan Coal was granted Project Approval for the Metropolitan Coal Project (**the Project**) under Section 75J of the New South Wales (NSW) *Environmental Planning and Assessment Act, 1979* (EP&A Act) on 22 June 2009 (the Project Approval). A copy of the Project Approval is available on the Peabody website (<http://www.peabodyenergy.com.au>).

The Project comprises continuation, upgrade and extension of underground coal mining operations and surface facilities at Metropolitan Coal. The Approved underground mining Project layout and areas of potential impact are shown in **Figure 1**. The Major Surface Facilities Area is shown in **Figure 2**. Relevant drainage pathways are shown in **Figure 2a**.

### 1.1 PURPOSE AND SCOPE OF PLAN

This Pollution Incident Response Management Plan (**PIRMP**) has been prepared by Metropolitan Collieries, as holder of Environment Protection License No.767 (**EPL 767**) 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 767 covers the following scheduled activities:

1. Coal Works; and
2. Mining for Coal.

The PIRMP is to be implemented by Metropolitan Collieries, including its employees and contractors, in the event of a pollution incident. In particular the PIRMP provides information regarding procedures for:

- the identification of a pollution incident;
- notification of pollution incidents in certain circumstances; and
- responses to pollution incidents by Metropolitan Collieries including its employees and contractors.

The relationship of this PIRMP to the Metropolitan Mine Environmental Management Structure is shown on **Figure 3**.

Metropolitan Coal – Pollution Incident Response Management Plan		
PIRMP 2020		
Document ID: Pollution Incident Response Management Plan		

Figure 1

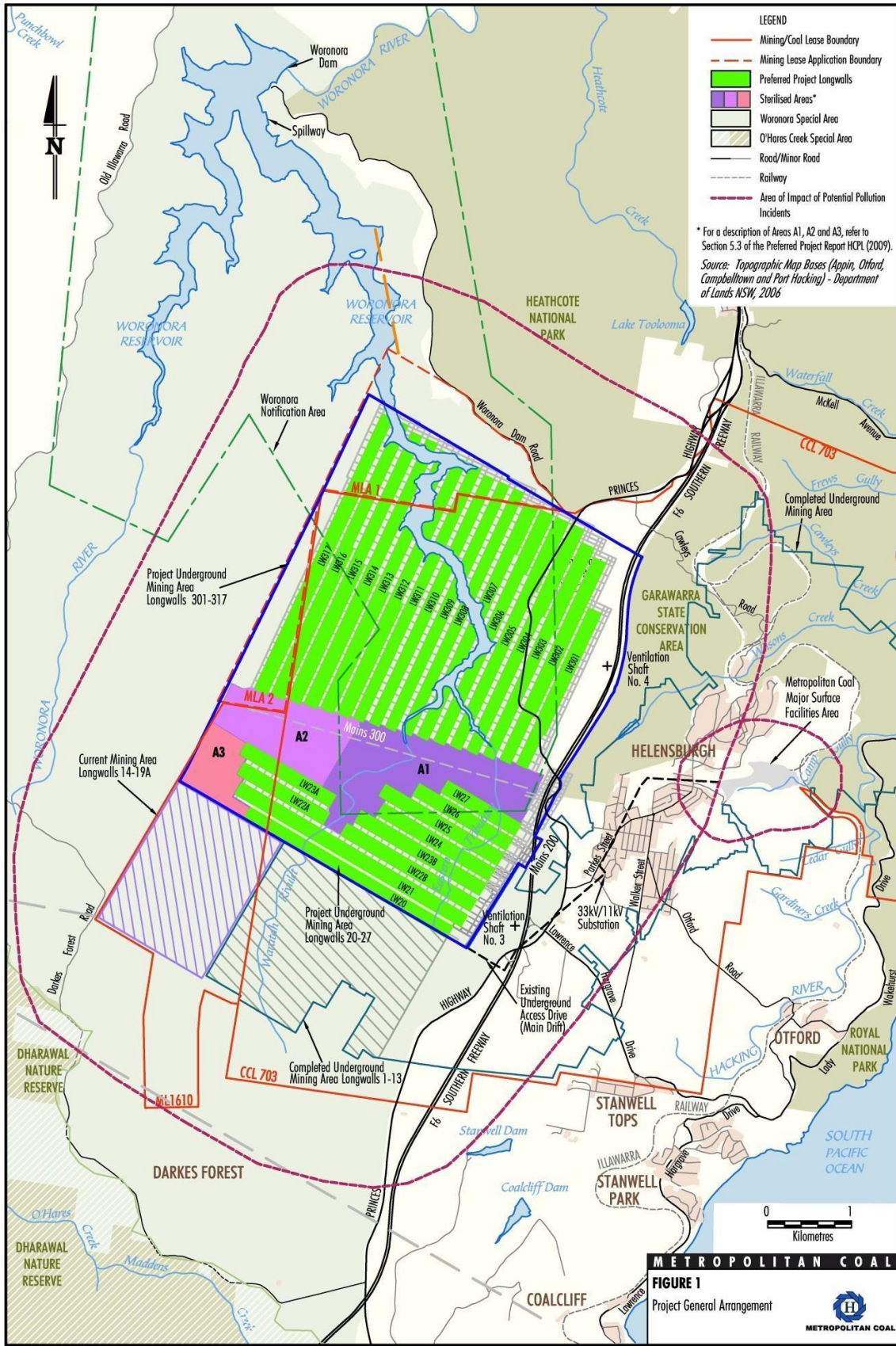
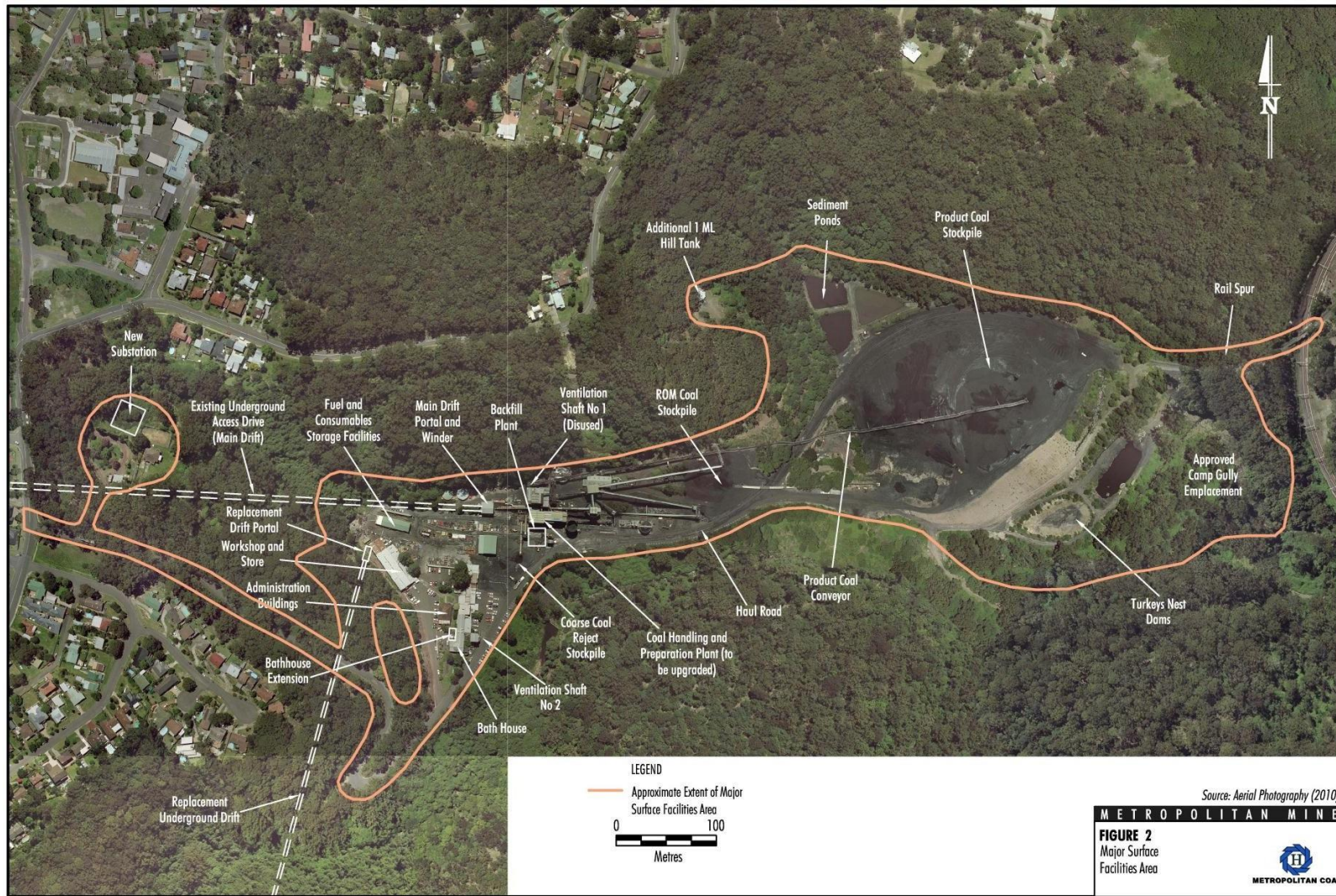




Figure 2



MET-08-AD7 PIRMP\_1018

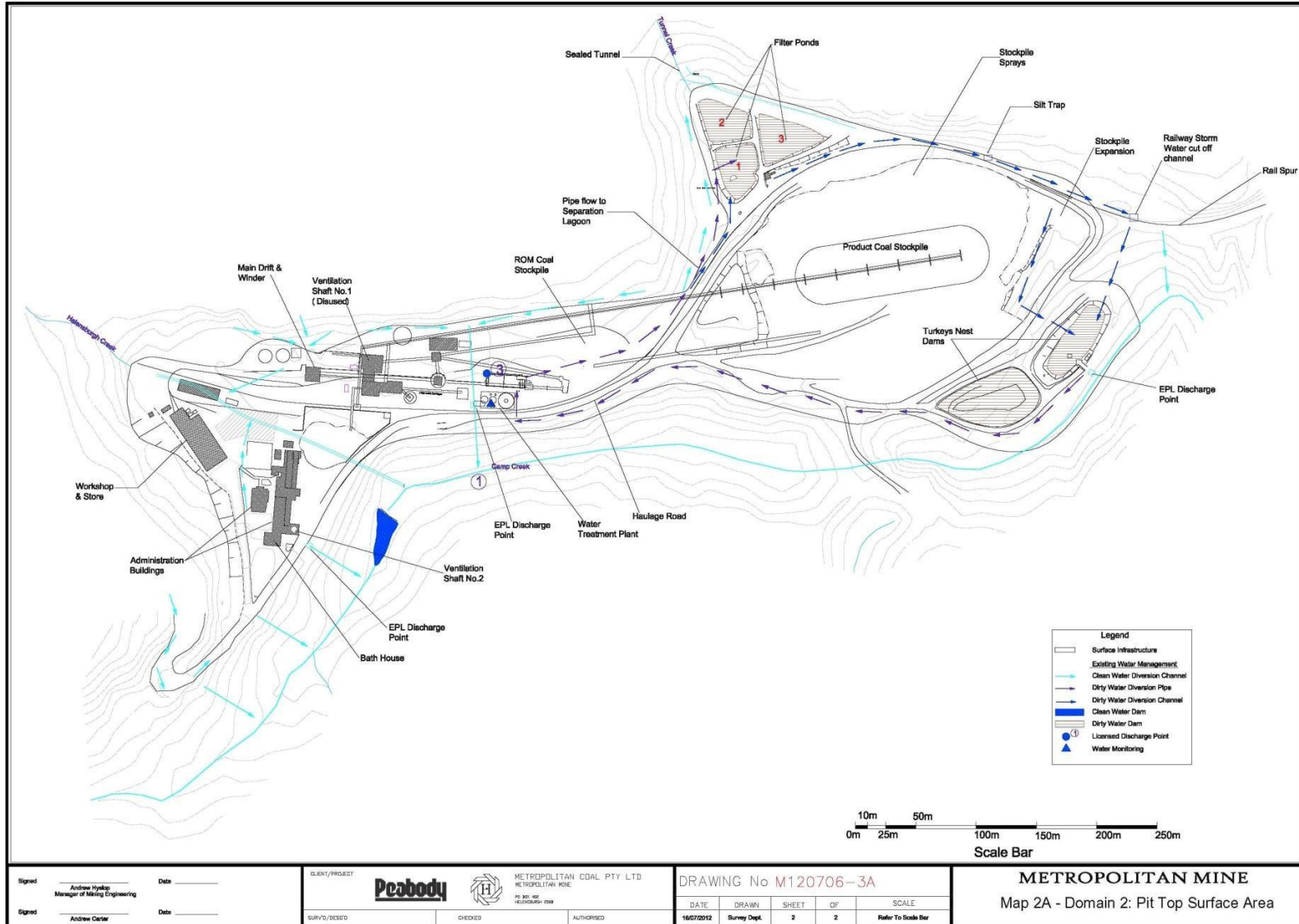
Metropolitan Coal – Pollution Incident Response Management Plan

PIRMP 2020

Document ID: Pollution Incident Response Management Plan



Figure 2 a



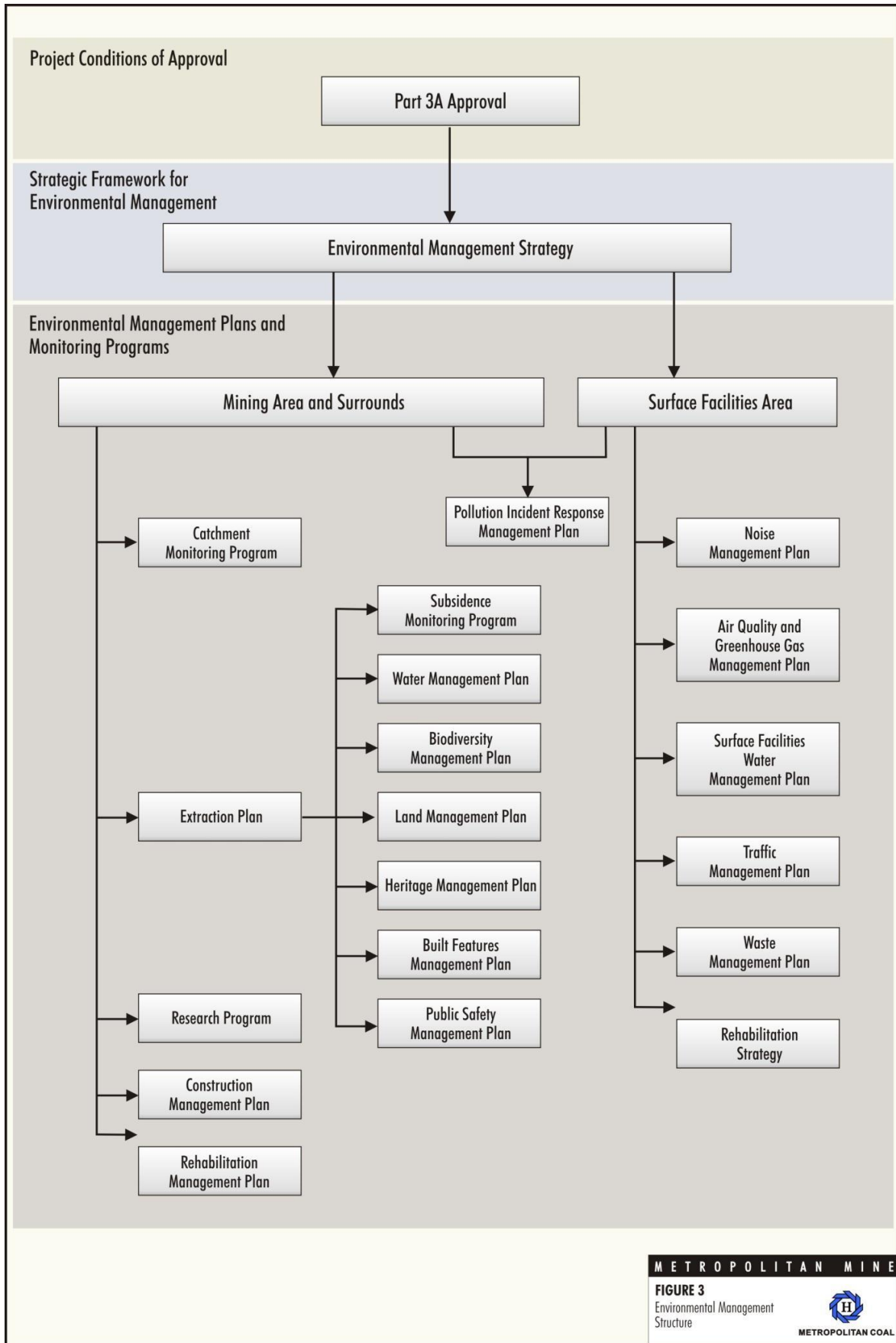
Metropolitan Coal – Pollution Incident Response Management Plan

PIRMP 2020

Document ID: Pollution Incident Response Management Plan



Figure 3



METROPOLITAN MINE  
**FIGURE 3**  
 Environmental Management Structure  
  
 METROPOLITAN COAL

## 2 STRUCTURE OF PLAN

The table below identifies the relevant statutory requirements for inclusion in the PIRMP and where each section is located in the plan:

<b>Requirement</b>	<b>PIRMP Section</b>
Notification Procedures - <i>POEO Act Section 148, 149</i>	<b>Section 3.3</b>
Action to be taken following a pollution incident - <i>POEO Act Section 153C (b) and POEO Reg 98C (1)(l)</i>	<b>Section 4 and Risk Assessment in Appendix A</b>
Procedures for coordinating with the EPA, Local Council, Ministry of Health, SafeWorkNSW and Fire and Rescue NSW - <i>POEO Act Section 153C (c)</i>	<i>Flow chart in Section 3.3, Pollution Incident Notification Form and Authorities Notification Form in Appendix B</i>
Description of hazards to human health or environment associated with the relevant activity - <i>POEO Act Section 153C (d) and POEO Reg 98C(1)(a) and (b)</i>	<b>Section 6 and Risk Assessment in Appendix A</b>
Likelihood of hazards occurring - <i>POEO Act Section 153C (d)</i>	<b>Section 8 and Risk Assessment in Appendix A</b>
Pre-emptive actions to minimise or prevent risk of harm to human health or environment - <i>POEO Act Section 153C (d) and POEO Reg Section 98C(1)(c)</i>	<b>Section 8 and Risk Assessment in Appendix A</b>
Inventory of potential pollutants - <i>POEO Act Section 153C (d) and POEO Reg 98C(1)(d) and (e)</i>	<b>Section 7 and Risk Assessment in Appendix A</b>
Maximum quantity of pollutant to which the license relates - <i>POEO Act Section 153C (d)</i>	<i>Risk Assessment in Appendix A</i>
Safety equipment to minimise the risks to human health or environment - <i>POEO Act Section 153C (d) and POEO Reg 98C(1)(f)</i>	<b>Section 8.3</b>
Names, positions and contact details - <i>POEO Act Section 153C (d)</i>	<b>Section 3.3</b>
Contact details of each relevant authority - <i>POEO Act Section 148 and POEO Reg 98C(1)(g) and (h)</i>	<i>Flow chart in Section 3.3</i>
Early warning mechanisms for people off-site - <i>POEO Act Section 153C(a)(d) and POEO Reg 98C(1)(i)</i>	<b>Section 5</b>
Arrangements for minimising risk of harm to persons on the premises - <i>POEO Act Section 153C (d) and POEO Reg 98C(1)(j)</i>	<b>Section 8.1 and Risk Assessment in Appendix A</b>
Training - <i>POEO Act Section 153C (d) and POEO Reg 98C(1)(m)</i>	<b>Section 9</b>
Testing of plan - <i>POEO Act Section 153C (d), and Section 153E POEO(G) Reg (CI 98E)</i>	<b>Section 10 and PIRMP Testing Procedure in Appendix B</b>
Updating of plan - <i>POEO Act Section 153F and POEO(G) Reg 98E</i>	<b>Sections 10.1 and 10.2</b>
Manner in which plan is tested and maintained - <i>POEO Act Section 153C (d)</i>	<b>Section 10 and PIRMP Testing Procedure in Appendix B</b>
Detailed maps - <i>POEO Reg 98C (1)(k)</i>	<b>Figures 1 and 2</b>

### 3 NOTIFICATION OF A POLLUTION INCIDENT

#### 3.1 RESPONSIBILITIES AND DUTIES

If a pollution incident occurs in the course of an activity at the premises so that *material harm to the environment* (within the meaning outlined in **section 3.2** below) is caused or threatened, Metropolitan Coal must immediately implement this PIRMP. All pollution incidents causing or threatening material harm to the environment are to be immediately notified in accordance with the flowchart in **section 3.3** below. Immediate incident notification will be conducted in accordance with the flowchart in **section 3.3** if there is any ambiguity as to whether material harm to the environment has been caused or threatened.

#### 3.2 DEFINITION OF A POLLUTION INCIDENT

The POEO Act defines a *'pollution incident'* as being:

*"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."*

The POEO Act defines *'pollution'* in the following terms:

**'pollution'** means:

- (a) water pollution, or
- (b) air pollution, or
- (c) noise pollution, or
- (d) land pollution.'

#### 3.3 PROCESS FOR REPORTING A POLLUTION INCIDENT AND RELEVANT CONTACT DETAILS OF KEY INDIVIDUALS RESPONSIBLE FOR ACTIVATING PLAN, NOTIFYING AUTHORITIES AND MANAGING THE RESPONSE TO A POLLUTION INCIDENT

The key activities under this plan and the nature of these activities are as follows:

1. **Activating the plan Notification of the relevant authorities if a pollution incident occurs, and material harm is caused or threatened**
2. **Notifying the relevant authorities**
3. **Managing the response to a pollution incident**

The following individuals have responsibility for implementation of the activities:

1. Stephen Love, Environment and Community Superintendent, who can be contacted 24 hours a day, 7 days a week on 4294 7384 or 0417 584 121
2. Jon Degotardi, Manager for Technical Services, who can be contacted 24 hours a day, 7 days a week on 4294 7233 or 0407 241 761
3. Rae O'Brien, General Manager, who can be contacted 24 hours a day, 7 days a week on 4294 7201 or 0403 095 101.

The following procedures are to be followed by **Metropolitan Coal as employer and occupier of the site and all employees and contractors** in the event that a pollution incident occurs on site:

Metropolitan Coal – Pollution Incident Response Management Plan		
PIRMP 2020		
Document ID: Pollution Incident Response Management Plan		

**If you become aware of a pollution incident**

- i.e. any incident or set of circumstances during or 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 water, air, noise or land pollution has occurred, is occurring or is likely to occur (**pollution incident**)
- and the incident involves **material harm to the environment** – harm to the environment is material if it involves actual or potential harm to the health or safety of human beings or to ecosystems that is **not trivial** OR it results in the actual or potential loss or property damage of an amount, or amounts in aggregate, **exceeding \$10,000** (where '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). **IF YOU ARE UNSURE CONTINUE WITH NOTIFICATION PROCESS.**

*Metropolitan Collieries (Employer and Occupier)  
Employees & Contractors*

- Must notify following persons immediately**
- Call **Control Room on 4294 7333** to complete the INCIDENT NOTIFICATION FORM (to include matters 1-5 information listed below); **AND**
  - Call **Stephen Love**, Environment and Community Superintendent on 4294 7384 or 0417 584 121

*if above people cannot be contacted*

- Must notify the Environment Protection Authority (EPA) immediately**
- Call EPA immediately on 131 555
  - Then must call immediately:
    - Wollongong City Council (4227 7111),
    - the Ministry of Health (9391 9000),
    - SafeWorkNSW (13 10 50), and
    - Fire and Rescue NSW (000).
- INCIDENT NOTIFICATION FORM to be completed if not completed by Control Room/Ryan Pascoe. AUTHORITIES NOTIFICATION FORM to be completed.

- Information that must be notified**
1. Time, date, nature, duration and location of incident,
  2. Location of the place where pollution is occurring or is likely to occur,  
*If known:*
  3. Nature, estimated quantity or volume and concentration of any pollutants involved,
  4. Circumstances in which the incident occurred (including the cause of the incident),  
and
  5. Action taken or proposed to be taken to deal with the incident and any resulting pollution or threatened pollution.
- If not known at the time of initial notification, above information must be notified immediately after it becomes known.

**NOTES**

A detailed record should be maintained at each step of the process, including the date and time actions are taken.

Any decision to notify or not to notify must be recorded in writing with reasons.  
Do not report an opinion to the authorities – only facts.



## 4 INCIDENT RESPONSE AND POST-NOTIFICATION PROCEDURES

Once all authorities listed above have been notified of the pollution incident, the response for the hazard in the Risk Assessment in **Appendix A** is to be implemented immediately. Should the incident not be described in **Appendix A**, the following procedures are to be followed:

- (a) Assess best clean up procedures for each incident based on the pollutant and site issues. Remove contaminated soil, wastewater and used spill equipment to an appropriate place within the licensed premises for licensed waste disposal and/or remediation.
- (b) Following an incident, the following must be undertaken:
  - Undertake further monitoring/ testing if required.
  - Complete incident report.
  - Organise restocking of spill equipment.
  - Complete Government reports, as necessary.
  - Implement corrective actions to avoid reoccurrence.
- (c) Follow any advice / requirements from the Authorities notified.

The licensee must provide written details of the notification to the EPA within **7 days** of the date on which the incident occurred.

If any of the information identified in the flowchart above was not known at the time of initial reporting of the pollution incident to any of the authorities, that information must be notified to the authorities immediately after it becomes known.

All communications with any of the authorities following the incident are to be made through Stephen Love. Following the initial notification of the incident, these personnel will ensure that regular contact is made with all authorities and persons who have been notified of the incident in relation to ongoing actions taken to combat the pollution caused by the incident. In particular these personnel will:

- (a) liaise with the EPA regarding appropriate actions to be taken to control, manage and mitigate the pollution;
- (b) work co-operatively with the EPA and any other relevant authorities to clean-up any pollution on site;
- (c) notify the community of the results of ongoing monitoring of the pollution; and
- (d) consult any owners or occupiers in the vicinity of the site regarding any off-site actions to be taken which may impact on their properties.

## 5 COMMUNICATING WITH THE COMMUNITY AND MECHANISMS FOR PROVIDING EARLY WARNINGS AND REGULAR UPDATES TO PERSONS IN THE VICINITY OF THE SITE

The Metropolitan Coal Mine is located adjacent to the town of Helensburgh. The Colliery is also located adjacent to Camp Creek, a tributary of the Hacking River which flows through the Royal National Park. In this context, effective management of pollution incidents is integral to helping to prevent and/ or mitigate community and environmental impacts. Any pollution incident causing or threatening material harm to the environment will be communicated to all potentially impacted stakeholders as soon as practicable. Specifically, Metropolitan Coal will put the following community notification procedures in place if a pollution incident occurs on the site to provide early warnings and regular updates to the residents of premises who may be affected by a pollution incident:

Metropolitan Coal – Pollution Incident Response Management Plan	
PIRMP 2020	
Document ID: Pollution Incident Response Management Plan	

- Notification in conjunction with emergency services.
- Notification via ‘*Our Helensburgh*’ community website ([www.ourhelensburgh.com.au](http://www.ourhelensburgh.com.au)).
- Personnel will directly contact the owners or occupiers of all residences that have the potential to be impacted by a pollution incident, as well as all sensitive receptors located in the town (including, but not necessarily limited to the following: local schools, pre-schools, churches etc.) via telephone, letterbox drop and/ or door knocking.

Communication with the community will be made as soon as practicable following a pollution incident as well as on an ongoing basis until the incident has been fully controlled and any harm caused as a result of the incident has been rectified.

Where necessary, notification to the community will include instructions for mitigation of the pollution incident. For example, instruction would be provided to close windows and doors and remain inside for incidents involving the emission of air pollutants and to avoid the use of water in creeks or rivers affected by the discharge of a pollutant to a waterway.

## 6 GENERAL HAZARDS TO HUMAN HEALTH OR THE ENVIRONMENT ASSOCIATED WITH THE ACTIVITY

As an operating underground coal mining operation, with surface support facilities located in the township of Helensburgh, the following hazards to human health and the environment are potentially associated with Metropolitan Coal Mine:

- (a) pollution of waters as a result of failure of water management structures;
- (b) pollution of waters as a result of failure of sediment and erosion control structures;
- (c) pollution of land and/ or waters as a result of runoff from the coal handling and preparation plant;
- (d) pollution of land and/ or waters as a result of spills and leaks of chemicals stored on site, including for example cracking in pipelines or hydrocarbon spills outside of bunded areas;
- (e) potential pollution of land or waters resulting from failure of containment structures; and
- (f) noise pollution arising from the carrying out of mining activities and materials handling.

Generally, the risk of the above hazards occurring is increased during periods of extreme weather events and particularly heavy rainfall. The likelihood of control structures failing would also be increased if regular monitoring and maintenance does not occur and / or if there is a change in personnel on the site who are unaware of site procedures. The pre-emptive actions to be taken by Metropolitan Collieries to minimise the risks of these hazards occurring is provided in **section 8.2** below.

Specific hazards, including the likelihood of such hazards occurring, are identified in the Risk Assessment in **Appendix A**.

## 7 INVENTORY OF POTENTIAL POLLUTANTS

Almost any substance has the potential to become a pollutant if it is of a sufficient quantity and/ or is impacting a sensitive environmental or community receptor. Metropolitan Coal has employed a risk-based approach in the development of the PIRMP to ensure that appropriate emphasis is given to substances that have the potential to cause material harm (within the meaning outlined in **section 3.2**).

A range of chemicals are utilised at Metropolitan Coal. They are used for a number of purposes including, but not limited to, cleaning, machinery maintenance, coal beneficiation and water treatment.

Metropolitan Coal – Pollution Incident Response Management Plan	
PIRMP 2020	
Document ID: Pollution Incident Response Management Plan	

Majority of the chemicals stored on site are in small quantities. Chemicals are stored appropriately and in accordance with statutory requirements and relevant Australian Standards.

Chemicals (including fuels) stored at the surface facility area (see Figure 2) are contained within a bunded area on a concrete sealed surface. Any spills report to the Waste Water Treatment Plant (WWTP) on site. Metropolitan Coal's surface facilities area has been designed such that all water from the surface of the mine is captured on site and treated at the WWTP before being discharged from a licensed discharge point.

Chemicals on the site (see **Figure 2** for relevant storage locations) are listed in the Risk Assessment located in **Appendix A** and are listed on the Metropolitan ChemAlert system which includes material safety data information.

## **8 RISK ASSESSMENT – LIKELIHOOD OF HAZARDS OCCURRING & THE SEVERITY OF HARM**

Metropolitan Coal has a procedure for introducing new chemicals to site using the Chemical Approval Form. The Chemical Approval Form is administered in accordance with the Metropolitan Coal Health and Safety, and Environment and Community Management System. It results in a high-level review of the potential risks associated with the introduction to site of the chemical being assessed. Where this high-level assessment indicates that it is warranted, the Risk Assessment will be updated (i.e. where the chemical approval process identified that the chemical is potentially harmful enough to be officially risk assessed).

The Risk Assessment has evaluated the likelihood of the pollutant causing harm and the severity of that harm. It has been undertaken in conjunction with those who have the potential to be affected by the pollutant.

In preparing the Risk Assessment, the following activities were undertaken:

1. Evaluate the likelihood of a spill occurring and the likely severity of that spill, using the risk assessment matrix to assign a risk rating (see Peabody Metropolitan Coal Risk Assessment Template).
2. Identify the factors that may be contributing to the risk.
3. Where available, review health and safety information that is relevant to the particular hazard (such as Codes of Practice, SafeWorkNSW guidelines and Material Safety Data Sheets).

The Risk Assessment and methodology used to undertake the risk assessment is outlined in the Peabody - Metropolitan Coal Risk Assessment Template.

If an identified risk has been classified as '*high*' or '*extreme*', the management measures for a possible pollution incident must be included and approved.

### **8.1 HOW IDENTIFIED RISKS TO HUMAN HEALTH CAN BE REDUCED**

Once risks have been assessed, action must be taken by Metropolitan Coal personnel (in consultation with other staff, Contractors/Subcontractors, and in some cases, clients) to eliminate or control risks. The Emergency Management Plan (EMP), developed in accordance with the Metropolitan Coal Health and Safety Management System, outlines the Procedures and Controls for the occupational, health and safety risks associated with an emergency on site. In conjunction with the PIRMP, the EMP will be followed in the event of a pollution incident to reduce the impacts on human health. Controlled copies of the EMP are readily available at the colliery.

Metropolitan Coal – Pollution Incident Response Management Plan		
PIRMP 2020		
Document ID: Pollution Incident Response Management Plan		

## 8.2 PREEMPTIVE ACTIONS TO MINIMISE OR PREVENT ANY RISK OF HARM TO HUMAN HEALTH OR THE ENVIRONMENT

The Risk Assessment contained in **Appendix A** describes how specific pre-emptive actions can reduce the risk of harm in the event of a particular incident occurring. In addition, Metropolitan Coal implements the following general pre-emptive actions to reduce the risk of harm occurring as a result of a pollution incident:

- (a) All Metropolitan Coal personnel receive extensive and regular training as outlined in **section 9**;
- (b) All Metropolitan Coal personnel are trained in the appropriate use of safety equipment and devices to minimise possible incidents;
- (c) Risk assessments are completed prior to all work to identify and mitigate all health, safety and environmental hazards;
- (d) Regular monitoring of noise, dust and water impacts is undertaken in accordance with the site's EPL;
- (e) Regular checks and maintenance of equipment is carried out by site personnel;
- (f) All new equipment is inspected thoroughly prior to its use on site to ensure that it meets safety and environmental standards;
- (g) Regular site meetings are held to ensure site personnel are aware of all activities currently underway on the site;
- (h) Environmental management at the colliery is audited on a weekly basis;
- (i) All incidents are investigated, and corrective actions are developed and implemented to prevent a reoccurrence;
- (j) Incidents are communicated to ensure personnel are aware of the hazards and take appropriate steps to prevent a reoccurrence; and
- (k) Regular reviews are conducted of all management plans applying to the site.

## 8.3 SAFETY EQUIPMENT / DEVICES USED TO MINIMISE RISK TO HUMAN HEALTH OR THE ENVIRONMENT AND TO CONTAIN OR CONTROL A POLLUTION INCIDENT

Activities must be carried out in a competent and responsible manner. This includes the processing, handling, movement and storage of material and substances used to carry out the activity and the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity. All plant equipment installed at the site or used in connection with the activity is maintained in a proper and efficient condition and operated in a proper and efficient manner. All equipment is checked weekly and restocked when required.

**Table 1 Pollution Prevention Equipment Inventory**

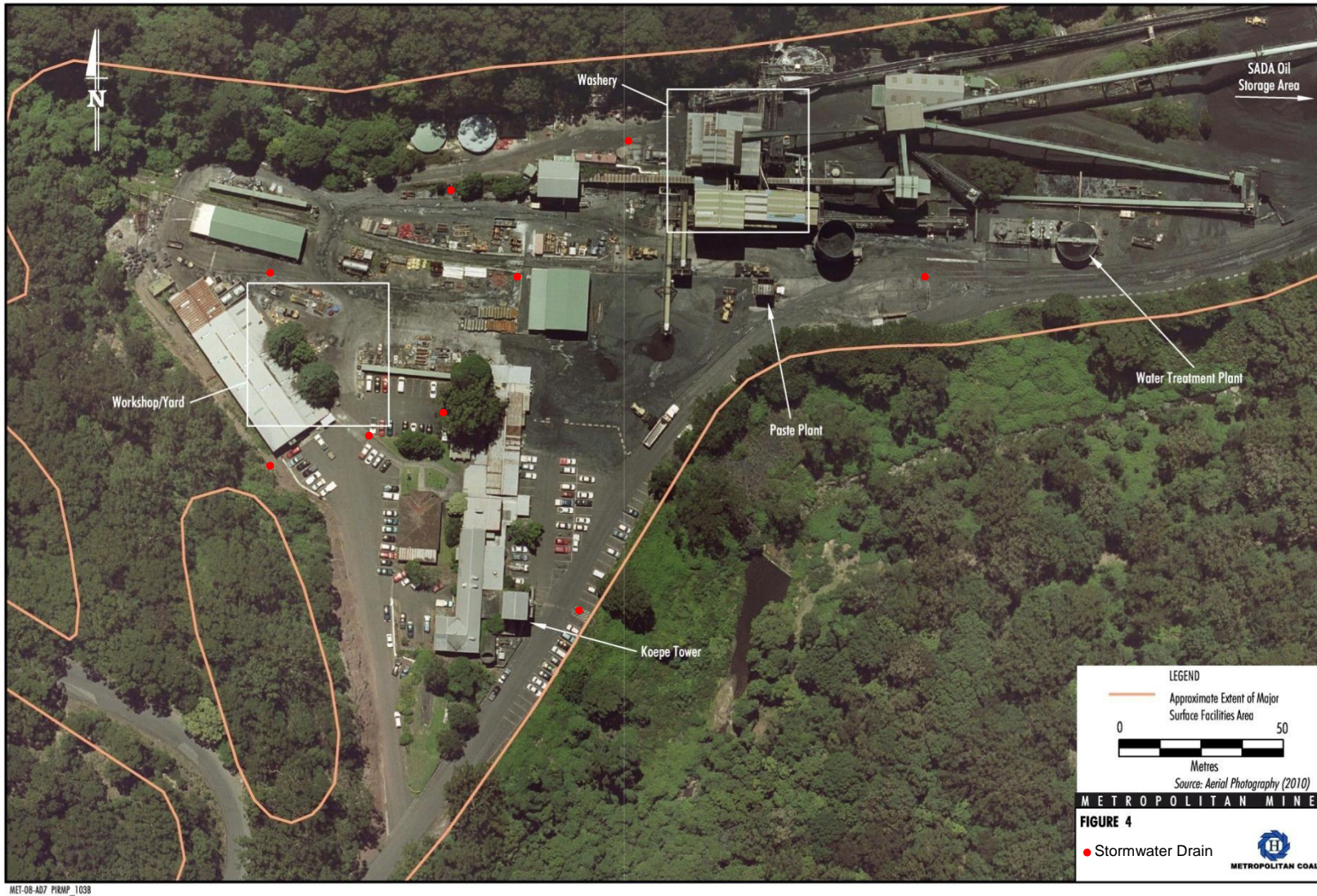
Type	Amount	Location	Staff Contact
Universal Spill Kit (suitable for water-based and oil-based liquid spills)	8 x 120L Labelled Wheelie Bin Spill Kits	See Figure 4	Kane Organ
Hydrocarbon Spill Kit (suitable for oils and fuels)	4 x 120L Labelled Wheelie Bin	See Figure 4	Kane Organ
Major Spill Response Cache	1 x storage shed bulk spill response cache	Beside Water Treatment Plant	Kane Organ

**Figure 4** shows the locations of the pollution response equipment and devices for the site and Stormwater drain locations. Material safety data information is stored at the facility in hard copy and the operation also uses the ChemAlert system with regard to material safety data information.

Metropolitan Coal – Pollution Incident Response Management Plan	
PIRMP 2020	
Document ID: Pollution Incident Response Management Plan	



Figure 4



MET-08-AD7 PIRMP\_1038

## 9 NATURE AND OBJECTIVES OF STAFF TRAINING PROGRAMS

Employees, contractors and visitors will be trained in these conditions and the implementation of the PIRMP:

- Initially, as part of induction training;
- Then, by periodic refresher training; and
- If there are amendments to the PIRMP.

Training in the content of the PIRMP and assessment competency will be conducted in accordance with the Metropolitan Coal Training and Competence Management Plan. Training must be suitable for the level of risk and likelihood of incidents.

The principal objective of the training is to create an understanding by staff of the requirements of the PIRMP including specifically the following matters:

- Awareness of the potential for harm to people and the environment from the materials held on-site;
- Information on the sensitivity of the environment surrounding the site;
- The environmental responsibilities of Metropolitan Coal;
- Use of the correct personal protective equipment and any appropriate and/or necessary health and safety training;
- Reporting procedures if there's a risk of surface water, groundwater, air or land contamination;
- Reporting to the environmental manager if a discharge to the sewer or stormwater is involved;
- Safe and correct use of all spill clean-up equipment or pollution prevention structures and/or devices on site;
- Safe handling and legal disposal of contaminated materials and wastes resulting from an incident, including:
  - Arrangements for using specialist contractors and services; and
  - Appropriate and safe decontamination.

Records of training will be kept in accordance with the Metropolitan Coal Training Management Plan. Training records are retained in accordance with the Pegasus record management system.

## 10 MANNER IN WHICH THE PIRMP IS TO BE TESTED AND MAINTAINED

### 10.1 PIRMP REVIEW AND UPDATE

The PIRMP must be kept at Metropolitan Coal and implemented in the case of an incident. It must be tested every twelve (12) months, and within one (1) month of any pollution incident to ensure the plan is accurate and up-to-date and capable of being implemented in a workable and effective manner.

The PIRMP must be tested in accordance with the PIRMP Testing Procedure (see **Appendix B**) and results of the test communicated to relevant staff identifying any non-compliances during the testing procedure. Non-compliances are to be followed up immediately and rectified.

Testing should also be carried out within one (1) month of any pollution incident occurring in the course of an activity to which the license relates. In light of the incident it should be assessed whether the information included in the plan is accurate and up to date and that the PIRMP plan is capable of being implemented in a workable and effective manner.

Metropolitan Coal – Pollution Incident Response Management Plan		
PIRMP 2020		
Document ID: Pollution Incident Response Management Plan		

The PIRMP will be subject to continual review and will be updated progressively with contemporary practices and procedures.

The results of the testing are to be kept in a PIRMP Performance Register including any requirements for changes to the PIRMP.

The revision status of this PIRMP is indicated on the title page of each copy. The distribution register for controlled copies of the PIRMP is described in **section 10.2**.

**10.2 AVAILABILITY OF PIRMP**

Metropolitan Coal will make the PIRMP publicly available on the Peabody website. A hard copy of the PIRMP will also be maintained at the Metropolitan Mine site and will be provided to all personnel responsible for implementing the plan.

Metropolitan Coal recognises that various agencies have different distribution requirements, both in relation to whom documents should be provided to and in what format. An Environmental Management Plan and Monitoring Program Distribution Register have been established in consultation with the relevant agencies and infrastructure owners that indicates:

- To whom the Metropolitan Coal Mine plans and programs, such as the PIRMP, will be distributed;
- The format (i.e. electronic or hard copy) of distribution; and
- The format of revision notification.

Metropolitan Coal will make the Distribution Register publicly available on the Peabody website.

Metropolitan Coal is responsible for maintaining the Distribution Register and for ensuring that the notification of revisions is sent by email or post as appropriate.

In addition, Metropolitan Coal employees with local computer network access will be able to view the controlled electronic version of this PIRMP on the Metropolitan Coal local area network. Metropolitan Coal will not be responsible for maintaining uncontrolled copies beyond ensuring the most recent version is maintained on Metropolitan Coal’s computer system and the Peabody website.

Metropolitan Coal – Pollution Incident Response Management Plan	
PIRMP 2020	
Document ID: Pollution Incident Response Management Plan	

## 11 POTENTIAL CONTINGENCY MEASURES

If monitoring of the PIRMP indicates that a non-compliance or issue with implementation of the PIRMP has been identified, Metropolitan Coal will conduct an investigation, and identify and assess potential rectification measures. Potential rectification measures could include:

- An audit of the PIRMP, including existing management measures;
- Identification of potential system improvements such as staff training; and
- The conduct of additional monitoring or review (e.g. increase in frequency) to inform the proposed contingency measures.

## 12 FAILURE TO COMPLY

Metropolitan Coal takes its responsibilities under the POEO Act seriously. All employees and contractors will be made aware of the following maximum penalties prescribed under the POEO Act relating to pollution incidents:

**Table 2 Penalties for Failing to Comply**

<b>Offence</b>	<b>Maximum penalty (corporation)</b>	<b>Maximum penalty (individual)</b>
Polluting water/air/land/ noise	\$2,000,000 plus \$240,000 for each day the offence continues	\$500,000 plus \$120,000 for each day the offence continues
Failure to report pollution incident immediately (where material harm to the environment caused or threatened) and provide all relevant information and to all authorities provided in the Act	\$2,000,000 plus \$240,000 for each day the offence continues	\$500,000 plus \$120,000 for each day the offence continues
Failure to maintain control equipment in an efficient condition and operate control equipment in a proper and efficient manner	\$2,000,000 plus \$240,000 for each day the offence continues	\$500,000 plus \$120,000 for each day the offence continues
Failure to comply with condition of Environment Protection License	\$2,000,000 plus \$240,000 for each day the offence continues	\$500,000 plus \$120,000 for each day the offence continues
Failure to prepare pollution incident response management plan	\$2,000,000 plus \$240,000 for each day the offence continues	\$500,000 plus \$120,000 for each day the offence continues
Failure to implement a pollution incident response management plan following a pollution incident where material harm to the environment caused or threatened	\$2,000,000 plus \$240,000 for each day the offence continues	\$500,000 plus \$120,000 for each day the offence continues
Failure to keep a pollution incident management plan on the licensed premises and make plan available when required by authorities	\$2,000,000 plus \$240,000 for each day the offence continues	\$500,000 plus \$120,000 for each day the offence continues.
Failure to test a pollution incident response plan every 12 months and within 1 month of a pollution incident	\$2,000,000 plus \$240,000 for each day the offence continues	\$500,000 plus \$120,000 for each day the offence continues



**APPENDIX A**  
**RISK ASSESSMENT TABLE**  
**RANKING MATRIX**

Metropolitan Coal – Pollution Incident Response Management Plan		
PIRMP 2020		
Document ID: Pollution Incident Response Management Plan		

Potential Pollutant	Maximum Amount Stored on Site	Potential Release Pathway (Media)	Potential Receptor Pollution Risk	Inherent Risk			Management Actions	Managed Risk			Pollution Incident Response	
				L	C	Risk		L	C	Risk		
Explosives (TNT, lead chromate, PETN, lead azide)		Air (in case of explosion)	Onsite workers	C	5	Extreme	Stored in small quantities underground	E	5	Medium	<p>Explosion risks are managed under the Metropolitan Coal's Health and Safety Management System and in particular under the Explosive Management Plan. Training is undertaken to ensure personnel are aware competent with respect to the requirements of the Health and Safety Management System.</p> <p>Critical controls from the Health and Safety Management System Management Plans are audited to ensure that they are integral.</p> <p>In the event an explosion human health and safety is to take priority, Metropolitan Coal will undertake the procedures for notification in the PIRMP and any requirements for environmental monitoring to be undertaken after further explosion risk is considered to be low.</p>	
			Nearby residents	C	5	Extreme	Stored in small quantities underground	E	5	Medium		
		Surface water (in case of explosion)	Local creek	C	3	Medium	Stored in small quantities underground	E	3	Low		Not required - see TARP procedure
			Nearby residents	C	3	Medium	Stored in small quantities underground	E	3	Low		Not required - see TARP procedure
		Groundwater (in case of explosion)	Local creek	C	3	Medium	Stored in small quantities underground	E	3	Low		Not required - see TARP procedure
			Groundwater aquifer	C	3	Medium	Stored in small quantities underground	E	3	Low		Not required - see TARP procedure
		Fire water (in case of explosion)	Onsite workers	C	2	Medium	Stored in small quantities underground	E	2	Low		<p>Explosion risks are managed under the Metropolitan Coal's Health and Safety Management System and in particular under the Explosive Management Plan. Training is undertaken to ensure personnel are aware competent with respect to the requirements of the Health and Safety Management System.</p> <p>Critical controls from the Health and Safety Management System Management Plans are audited to ensure that they are integral.</p> <p>In the event an explosion human health and safety is to take priority, Metropolitan Coal will undertake the procedures for notification in the PIRMP and any requirements for environmental monitoring to be undertaken after further explosion risk is considered to be low.</p>
Local creek	C		5	Extreme	Stored in small quantities underground	E	5	Medium	<p>Explosion risks are managed under the Metropolitan Coal's Safety Management System. There are a number of management plans that outline preventative actions for the risk of explosion on site. See the Fire and Explosion Control Management Plan for details and references to other fire management procedures. All personnel are trained in these procedures and audits are undertaken regularly.</p> <p>In the event an explosion human health and safety is to take priority, Metropolitan Coal will undertake the procedures for notification in the PIRMP and any requirements for environmental monitoring to be undertaken after further explosion risk is considered to be low.</p> <p>Any environmental clean ups will be done so in accordance with statutory requirements with any follow up sampling and analysis conducted.</p>			
Nearby residents	E		2	Low	Stored in small quantities underground	E	2	Low	Not required - see TARP procedure			
Liquid Petroleum Gas	Air	Onsite workers	E	4	Low	Kept in open air area, if leak occurs area is well ventilated. Small cylinders kept on site.	E	4	Low	Not required - see TARP procedure		
		Nearby residents	E	4	Low	Nearest resident located too far to be affected by gas leak as small amounts kept in cylinders.	E	4	Low	Not required - see TARP procedure		
Diesel	3 x Bulk Tanks	Air	On site workers	E	2	Low	Self contained bunding, exposure limited to filling tanks, PPE used for clean ups. Spill kits available	E	2	Low	Not required - see TARP procedure	
			Surface water	Local creek	C	3	Medium	Self contained bunding, concrete surface, drains report to WTP	E	4	Low	Not required - see TARP procedure
		Groundwater	Nearby residents	C	2	Medium	Self contained bunding, concrete surface, drains report to WTP	E	2	Low	Not required - see TARP procedure	
			On site workers	D	3	Medium	Self contained bunding, concrete surface, drains report to WTP	E	3	Low	Not required - see TARP procedure	
Paints	Air	On site workers	D	2	Low	Small quantities kept on site. PPE used for clean ups. Spill kits available.	E	2	Low	Not required - see TARP procedure		
		Surface water	Nearby residents	E	2	Low	Small quantities kept on site in concreted area, spill kits available	E	2	Low	Not required - see TARP procedure	
			On site workers	E	2	Low	Small quantities kept on site in concreted area, spill kits available	E	2	Low	Not required - see TARP procedure	
			Local creek	E	2	Low	Small quantities kept on site in concreted area, spill kits available	E	2	Low	Not required - see TARP procedure	
Hydraulic Oil	Surface water	Onsite workers	E	2	Low	Self contained bunding, exposure limited to filling tanks, PPE used for clean ups. Spill kits available	E	3	Low	Not required - see TARP procedure		
		Nearby residents	C	2	Medium	Stored on bunding in low quantities concrete surface, drains report to WTP	E	2	Low	Not required - see TARP procedure		
		Local creek	C	3	Medium	Stored on bunding in low quantities concrete surface, drains report to WTP	E	4	Low	Not required - see TARP procedure		
Sewage (major surface facilities area)	Surface water	Groundwater aquifer	C	3	Medium	Fully enclosed pipeline and storage area. Checked daily.	E	3	Low	Any overflows, leaks or broken pipes report immediately to Sydney Water Sewage Department.		
		Onsite workers	C	3	Medium	Fully enclosed pipeline and storage area. Checked daily.	E	3	Low	Any overflows, leaks or broken pipes report immediately to Sydney Water Sewage Department.		
		Local creek	C	3	Medium	Fully enclosed pipeline and storage area. Checked daily.	E	3	Low	Any overflows, leaks or broken pipes report immediately to Sydney Water Sewage Department.		
		Groundwater	Groundwater aquifer	C	3	Medium	Fully enclosed pipeline and storage area. Checked daily.	E	3	Low	Any overflows, leaks or broken pipes report immediately to Sydney Water Sewage Department.	
			Local creek	C	3	Medium	Fully enclosed pipeline and storage area. Checked daily.	E	3	Low	Any overflows, leaks or broken pipes report immediately to Sydney Water Sewage Department.	
			Nearby residents	E	3	Low	Fully enclosed pipeline and storage area. Checked daily.	E	3	Low	Any overflows, leaks or broken pipes report immediately to Sydney Water Sewage Department.	
Coal reject material	Groundwater	Surface water	C	2	Medium	Material solidifies and is stored in previous mine workings. Rejects managed in small stockpile at Surface Facilities Area well away from sensitive receptors.	D	2	Low	Not required - reporting of any non-conformances to EPA under licence agreement		
Drift rock waste	Surface water	Local creek	C	2	Low	Stored where any runoff gets diverted to WTP.	C	2	Low	Not required - reporting of any non-conformances to EPA under licence agreement		
Coal slump	Surface water	Local creek	C	4	High	Stockpile management plan in place, further assessments are being undertaken. Current management is outlined in the SLOPE STABILITY MANAGEMENT PLAN.	A	4	High	<p>Coal slumps are managed under the Metropolitan Coal's Safety Management System and in particular the Slope Stability Management Plan.</p> <p>Immediately activate the PIRMP and notification procedure. Use the SURFACE SPILL RESPONSE PROCEDURE to undertake the clean up. In addition to the Spill Response Procedure the following must be considered:</p> <p>Assess health and safety risks. Contain the area and prevent people from entering the area when not necessary.</p> <p>If safe to do so immediately contain spill and stop spill where possible and block pathway to creek.</p> <p>Sample water downstream and send to laboratory for TSS analysis immediately and after clean up. Conduct follow up sampling to ensure compliance with EPL conditions.</p>		
		Groundwater aquifer	E	2	Low	Product coal sits on a compacted based. Most runoff reports overland to surface water management system storages.	E	2	Low	Not required - see TARP procedure		
General waste	Surface water	Local creek	Staff are trained in appropriate waste storage, appropriate bins are supplied throughout the site. Inspections are undertaken regularly.	C	1	Low	Staff are trained in appropriate waste storage, appropriate bins are supplied throughout the site. Inspections are undertaken regularly.	D	1	Low	Clean up any spills immediately, report any non-conformances to area supervisor	
			Groundwater aquifer	E	1	Low	Staff are trained in appropriate waste storage, appropriate bins are supplied throughout the site. Inspections are undertaken regularly.	E	1	Low	Clean up any spills immediately, report any non-conformances to area supervisor	
		Groundwater	On site workers	E	1	Low	Staff are trained in appropriate waste storage, appropriate bins are supplied throughout the site. Inspections are undertaken regularly.	E	1	Low	Clean up any spills immediately, report any non-conformances to area supervisor	

Potential Pollutant	Maximum Amount Stored on Site	Potential Release Pathway (Media)	Potential Receptor Pollution Risk	Inherent Risk			Management Actions	Managed Risk			Pollution Incident Response	
				L	C	Risk		L	C	Risk		
Absorbents (spent oil spill material)		Surface water	Groundwater aquifer	E	1	Low	All disused of material is disposed of in appropriate containers supplied.	E	1	Low	Clean up any spills immediately, report any non-conformances to area supervisor	
			Local creek	E	1	Low	All disused of material is disposed of in appropriate containers supplied	E	1	Low	Clean up any spills immediately, report any non-conformances to area supervisor	
			Groundwater aquifer	E	1	Low	All disused of material is disposed of in appropriate containers supplied	E	1	Low	Clean up any spills immediately, report any non-conformances to area supervisor	
			Groundwater	E	1	Low	All disused of material is disposed of in appropriate containers supplied	E	1	Low	Clean up any spills immediately, report any non-conformances to area supervisor	
Gear Lubricant		Surface water	Nearby residents	E	1	Low	Stored on bunding in low quantities concrete	E	1	Low	Not required - see TARP procedure	
			Onsite workers	E	1	Low	Stored on bunding in low quantities concrete surface, drains report to WTP.	E	1	Low	Not required - see TARP procedure	
			Local creek	C	2	Extreme	Stored on bunding in low quantities concrete surface, drains report to WTP.	E	4	Low	Not required - see TARP procedure	
Grease		Surface water	Nearby residents	E	1	Low	Stored on bunding in low quantities concrete surface, drains report to WTP.	E	1	Low	Not required - see TARP procedure	
			Onsite workers	E	1	Low	Stored on bunding in low quantities concrete surface, drains report to WTP.	E	1	Low	Not required - see TARP procedure	
			Local creek	C	2	Extreme	Stored on bunding in low quantities concrete surface, drains report to WTP.	D	2	Low	Not required - see TARP procedure	
Solcenic Oil	10,000L	Surface water	Nearby residents	E	1	Low	Stored in bunded area, concrete surface, drains report to WTP, PPE worn for spill clean ups, spill kits available.	E	1	Low	Not required - see TARP procedure	
			Onsite workers	E	1	Low	Stored in bunded area, concrete surface, drains report to WTP, PPE worn for spill clean ups, spill kits available.	E	1	Low	Not required - see TARP procedure	
			Local creek	C	3	Medium	Stored in bunded area, concrete surface, drains report to WTP, PPE worn for spill clean ups, spill kits available.	D	3	Medium	Not required - see TARP procedure	
			Groundwater	D	3	Medium	Stored in bunded area, concrete surface, drains report to WTP, PPE worn for spill clean ups, spill kits available.	E	3	Low	Not required - see TARP procedure	
UG Diesel Pods	2 x 2,000L tanks	Air	On site workers	E	2	Low	Self contained bunding, exposure limited to filling tanks, PPE used for clean ups, spill kits available.	E	2	Low	Not required - see TARP procedure	
			Surface water	Local creek	C	3	Medium	Self contained bunding, exposure limited to filling tanks, PPE used for clean ups, spill kits available.	E	3	Medium	Not required - see TARP procedure
				Nearby residents	E	2	Low	Self contained bunding, exposure limited to filling tanks, PPE used for clean ups, spill kits available.	E	2	Low	Not required - see TARP procedure
				Groundwater aquifer	E	2	Low	Self contained bunding, exposure limited to filling tanks, PPE used for clean ups, spill kits available.	E	2	Low	Not required - see TARP procedure
				Groundwater	On site workers	E	2	Low	Self contained bunding, exposure limited to filling tanks, PPE used for clean ups, spill kits available.	E	2	Low
Flocculent for WTP	10,000L tank	Air	On site workers	C	2	Medium	Bunded and checked daily, PPE worn.	D	2	Low	Not required - see TARP procedure	
			Surface water	Local creek	C	2	Medium	Bunded and checked daily	D	2	Low	Not required - see TARP procedure
				Nearby residents	E	2	Medium	Bunded and checked daily	E	2	Low	Not required - see TARP procedure
				Groundwater aquifer	E	2	Medium	Bunded and checked daily	E	2	Low	Not required - see TARP procedure
			Groundwater	Local creek	E	2	Low	Bunded and checked daily	E	2	Low	Not required - see TARP procedure
Water Storage Dams 1 and 2		Surface water	Nearby residents	E	2	Low	No residents located immediately downstream of dam.	E	2	Low	Not required - Reporting of any discharges to EPA.	
			Local creek	C	3	Medium	Overflows only during times of peak rainfall. Overflows into water way capturing other turbid runoff. Reserve pumps purchased to help prevent discharges.	D	3	Medium	Not required - Reporting of any discharges to EPA.	
			Groundwater	Local creek	E	3	Low	Turbid water only stored. Not anticipated to have impacts upon the local creek via groundwater.	E	3	Low	Not required - Reporting of any discharges to EPA.
Welding gas (oxy acetylene)		Air	Nearby residents	E	3	Low	Nearest resident located too far to be affected by gas leak as small amounts kept in cylinders	E	3	Low	Not required - see TARP procedure	
			Onsite workers	C	3	Medium	Kept in caged area in open air, if leak occurs area is well ventilated. Small cylinders kept on site. Hot works procedure exists.	D	3	Low	Not required - see TARP procedure	

Potential Pollutant	Maximum Amount Stored on Site	Potential Release Pathway (Media)	Potential Receptor Pollution Risk	Inherent Risk			Management Actions	Managed Risk			Pollution Incident Response
				L	C	Risk		L	C	Risk	
Fuel supply trucks (diesel) entering surface area	Two trucks per week containing approximately 34,000L of diesel fuel	Surface water	Nearby residents	D	3	Medium	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of procedures to be followed to mitigate risks associated with surface transport.	E	3	Medium	Follow SURFACE SPILL RESPONSE PROCEDURE. Follow notification process outlined in PIRMP.
			Onsite workers	D	3	Medium	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of procedures to be followed to mitigate risks associated with surface transport.	D	3	Medium	Wear appropriate PPE - including appropriate face masks
			Local creek	D	4	High	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of procedures to be followed to mitigate risks associated with surface transport.	D	4	Medium	Immediately activate the PIRMP and notification procedure. Fuel spills are managed under the Metropolitan Coal's Safety Management System. Use the SURFACE SPILL RESPONSE PROCEDURE to undertake the clean up. In addition to the Spill Response Procedure the following must be considered: Assess health and safety and explosion risks. Contain the area and prevent people from entering the area when not necessary. If safe to do so immediately contain spill and stop spill where possible and block pathway to creek. Sample water downstream and send to laboratory for TPH, BTEX and PAH analysis immediately and after clean up. Conduct follow up sampling to ensure compliance with EPL conditions.
		Groundwater	Local creek	D	4	High	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of procedures to be followed to mitigate risks associated with surface transport. Surfaces are mostly paved on-site and therefore no anticipated impacts to local rivers via groundwater.	E	4	Low	Immediately activate the PIRMP and notification procedure. Fuel spills are managed under the Metropolitan Coal's Safety Management System. Use the SURFACE SPILL RESPONSE PROCEDURE to undertake the clean up. In addition to the Spill Response Procedure the following must be considered: Assess health and safety and explosion risks. Contain the area and prevent people from entering the area when not necessary. If safe to do so immediately contain spill and stop spill where possible and block pathway to creek. Sample water downstream and send to laboratory for TPH, BTEX and PAH analysis immediately and after clean up. Conduct follow up sampling to ensure compliance with EPL conditions.
Coal reject trucks leaving the surface facilities area (whilst still on Metropolitan property)		Surface water	Nearby residents	C	1	Low	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of	D	1	Low	Initiative SURFACE SPILL RESPONSE PROCEDURE.
			Onsite workers	C	1	Low	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of procedures to be followed to mitigate risks associated with surface transport.	E	2	Low	Wear appropriate PPE - including appropriate face masks
			Local creek	D	3	Medium	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of procedures to be followed to mitigate risks associated with surface transport.	D	3	Medium	Immediately activate the PIRMP and notification procedure. Use the SURFACE SPILL RESPONSE PROCEDURE to undertake the clean up. In addition to the Spill Response Procedure the following must be considered: Assess health and safety risks. Contain the area and prevent people from entering the area when not necessary. Contain spill using barriers. Engage a clean up crew remove any coal from water ways using a bobcat and shovels. Install sediment fencing, Sample water downstream for TSS immediately and after clean up. Conduct follow up sampling to ensure compliance with EPL conditions.
		Groundwater	Local creek	C	4	High	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of procedures to be followed to mitigate risks associated with surface transport.	C	4	High	Immediately activate the PIRMP and notification procedure. Use the SURFACE SPILL RESPONSE PROCEDURE to undertake the clean up. In addition to the Spill Response Procedure the following must be considered: Assess health and safety risks. Contain the area and prevent people from entering the area when not necessary. Contain spill using barriers. Engage a clean up crew remove any coal from water ways using a bobcat and shovels. Install sediment fencing, Sample water downstream for TSS immediately and after clean up. Conduct follow up sampling to ensure compliance with EPL conditions.
Coal trucks leaving the surface facilities area (whilst still on Metropolitan property)		Surface water	Nearby residents	C	2	Medium	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of procedures to be followed to mitigate risks associated with surface transport.	D	2	Low	Notification to the public via the website
			Onsite workers	C	3	Medium	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of procedures to be followed to mitigate risks associated with surface transport.	D	3	Medium	Wear appropriate PPE - including appropriate face masks
			Local creek	C	4	High	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of procedures to be followed to mitigate risks associated with surface transport.	C	4	High	Immediately activate the PIRMP and notification procedure. Fuel spills are managed under the Metropolitan Coal's Safety Management System. Use the SURFACE SPILL RESPONSE PROCEDURE to undertake the clean up. In addition to the Spill Response Procedure the following must be considered: Assess health and safety and explosion risks. Contain the area and prevent people from entering the area when not necessary. If safe to do so immediately contain spill and stop spill where possible and block pathway to creek.
		Groundwater	Local creek	E	4	High	Speed limits on road ways, truck drivers are inducted into the drivers code of conduct. Further, there is a Surface Transport Management Plan which outlines a number of procedures to be followed to mitigate risks associated with surface transport.	C	4	High	Immediately activate the PIRMP and notification procedure. Fuel spills are managed under the Metropolitan Coal's Safety Management System. Use the SURFACE SPILL RESPONSE PROCEDURE to undertake the clean up. In addition to the Spill Response Procedure the following must be considered: Assess health and safety and explosion risks. Contain the area and prevent people from entering the area when not necessary. If safe to do so immediately contain spill and stop spill where possible and block pathway to creek.

Risk Assessment Ranking Matrix						
Area of Effect		Estimation of Consequences Assessment				
		1 - Low	2 - Minor	3 - Moderate	4 - Major	5 - Critical
<b>(P)</b> Harm to people		Report only Near miss No medical treatment (RO)	Slightly Injured First aid treatment Low Level short term inconvenience (FAI)	Medical Treatment Injuries Disabling reversible impairment (MTI RWI)	Significant Injury or Disabling Irreversible impairment (LTI PPD TPD)	Fatality/fatalities Significant irreversible health effects (TPD)
<b>(E)</b> Environmental impact		Environmental nuisance Limited damage to minimal area of low significance	Minor short to medium term material environmental harm to small area(s) of limited significance	Serious short to medium term environmental harm with widespread impacts	Major environmental harm Relatively wide spread medium to long term impacts	Extreme environmental harm Long term wide spread effects on environment
<b>(A)</b> Asset damage and other consequential business losses		Slight damage <\$5,000 No disruption to operations	Minor damage <\$50,000 Brief disruption < 12 hours	Localised damage <\$500,000 Partial shutdown < 1 day	Major damage <\$2,000,000 Major shutdown <1 week	Extensive damage >\$2,000,000. Extensive loss > 1 week
<b>(R)</b> Impact on reputation		Slight impact Public aware but no public concern	Limited impact Some local public concern	Considerable impact with potential for wider public concern	National impact with potential for wider public concern	International impact International public attention
Likelihood of Consequence Assessment		Risk Ranking				
		1 - Low	2 - Minor	3 - Moderate	4 - Major	5 - Extreme
<b>A</b> (Very likely)	Assessed that this consequence from the hazard has occurred several times on this site or is very likely to occur at some time on this site	L	M	H	E	E
<b>B</b> (Likely)	Assessed that this consequence from the hazard has occurred on this site previously or is assessed to be likely to occur at some time on this site	L	M	H	H	E
<b>C</b> (Possible)	Assessed as possible that this consequence from the hazard could occur on this site at some time	L	M	M	H	E
<b>D</b> (Unlikely)	Assessed as unlikely that this consequence from the hazard will occur on this site / enterprise at any time	L	L	M	M	H
<b>E</b> (Highly unlikely)	Assessed that there is no practical possibility that this consequence from the hazard would ever occur on this site / enterprise	L	L	L	L	M
Risk Rating calculation - Road clockwise, e.g. for People P 3 B = H (People Moderate Likely → HIGH RISK)						

**APPENDIX B**  
POLLUTION INCIDENT NOTIFICATION FORM  
AUTHORITIES NOTIFICATION FORM  
POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN AUDIT FORM

Metropolitan Mine – Pollution Incident Response Management Plan		
PIRMP 2020		
Document ID: Pollution Incident Response Management Plan		



Pollution Incident Response Management Plan  
Pollution Incident Notification Form

DATE:

TIME:

NAME & POSITION:

SITE NAME:

SITE TYPE:

Description of Incident (including time, date, nature and duration of incident). Provide accurate information only, if some parameters (i.e. chemical type) are unknown **DO NOT SPECULATE.**

**Location of incident**

**Location of the place where pollution is occurring or is likely to occur**

**The nature, estimated quantity or volume and the concentration of any pollutants involved, if known, DO NOT SPECULATE**

**The circumstances in which the incident occurred (including the cause of the incident, if known)**

**Actions being undertaken**

# Pollution Incident Response Management Plan

## PIRMP Authorities Notification Form

DATE:
NAME & POSITION:
SITE NAME:
SITE TYPE:

**This form is to be used in conjunction with the Pollution Incident Notification Form.**

The following authorities **MUST** be contacted following an incident:

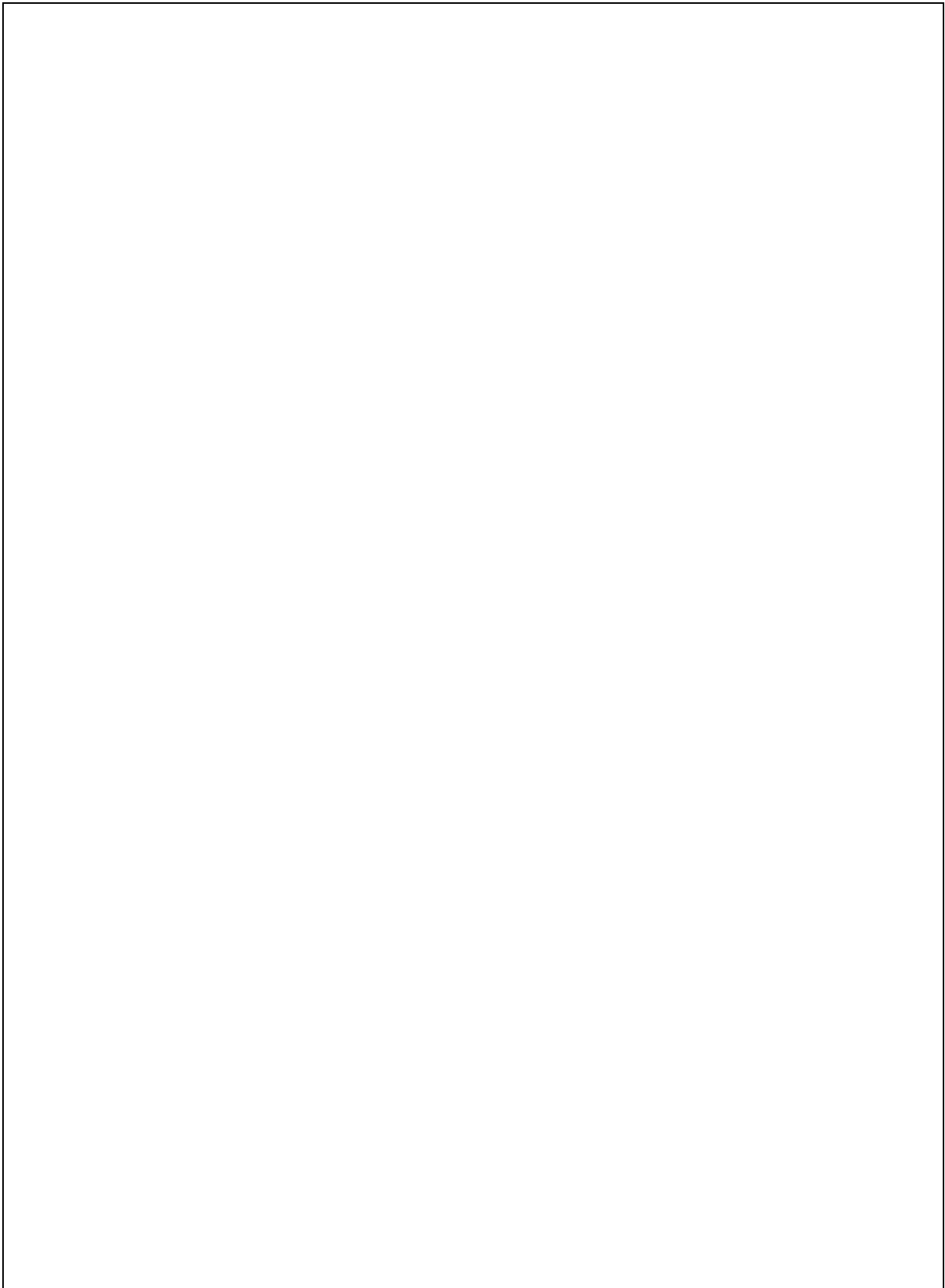
Authority	Contact details
Environment Protection Agency (EPA)	131 555
Ministry of Health	(02) 9391 9000
Fire and Rescue NSW	000 (Emergency)
SafeWork NSW	13 10 50
Wollongong City Council	(02) 4227 7111

**The following information MUST be provided to the relevant authorities (IF KNOWN, DO NOT SPECULATE) :**

- Time
- Date
- Nature of Incident (i.e. spill of chemical, dam release with unknown properties etc.)
- Duration of Incident (i.e. how long ago did it occur if known)
- Location of Incident (i.e. Metropolitan Coal Mine – underground, surface etc.)
- Location where pollution is occurring or is likely to occur
- Estimated quantity of any pollutants involved
- Concentration of any pollutants involved
- The circumstances in which the incident occurred (including the cause of the incident)
- Actions being undertaken to control spill



**Incident scenario:**

A large, empty rectangular box with a thin black border, intended for the user to write the incident scenario. It occupies the majority of the page below the 'Incident scenario:' label.

**Audit:**

<b>TEST</b>	<b>PASS (yes/no)</b>	<b>Comments</b>
<b>Did the personnel assess the risks involved and clear the area if safe to do so?</b>		
<b>Did the personnel check the MSDS and label for spill response (if applicable)?</b>		
<b>Did the personnel put in place any controls to prevent further spillage or losses?</b>		
<b>Did the personnel involved then notify the Control Room?</b>		
<b>Did the control room fill out the Pollution Incident Notification Form?</b>		
<b>Did the control room immediately contact the person authorised to activate the PIRMP and notify authorities?</b>		
<b>Did the person who was authorised to activate the PIRMP notify the person responsible for implementing the response?</b>		
<b>Did the person notifying the authorities know who to contact and where this information is available?</b>		
<b>Was the response for activating the PIRMP done so in a timely manner?</b>		
<b>Was the response effective in containing the pollution?</b>		

**Results of audit:**

--

**Personnel Knowledge Check Scenario**

NAME OF PERSONNEL BEING TESTED:

POSITION:

**Testing of the PIRMP:**

<b>TEST</b>	<b>PASS (yes/no)</b>	<b>Comments</b>
Did the person know that there is a PIRMP?		
Did the person know the procedure for implementing the PIRMP?		
Did the person know who to notify?		
Did the person know what to do if the person to notify was unavailable?		
Did the person know where the contact details for the authorities are kept?		
Did the person know where to find the PIRMP?		
Did the person know where the MSDS were located?		
Did the person know where the Major Spill Cache is?		

**Results:**

--

AUTHORISED:

SIGNED:

DATE: