



# DARTBROOK MINE

## WASTE MANAGEMENT PLAN

*for Dartbrook Operations Pty Ltd*

*30 October 2023*

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## DOCUMENT CONTROL

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# 1. INTRODUCTION

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## 1.1 BACKGROUND

Dartbrook Mine is an unincorporated Joint Venture (Dartbrook Joint Venture) between Australian Pacific Coal (APC) and Tetra Resources Pty Ltd (Tetra). Dartbrook Operations Pty Ltd will be the appointed operating management company and the Mine Operator under Section 5 of the *Work Health and Safety (Mines and Petroleum Sites) Regulation 2022*. The Dartbrook Joint Venture will acquire APC Dartbrook Management Pty Ltd ABN 62 007 377 577 (holder of Development Consent and Environment Protection Licence) and APC Dartbrook Pty Ltd ABN 46 000 012 813 (holder of mining and coal authorities).

Dartbrook is located approximately 10 kilometres (km) north-west of Muswellbrook and 4.5 km south-west of the Aberdeen in the Upper Hunter region (see **Figure 1**). Dartbrook operated as an underground longwall coal mine from 1993 until December 2006, when it was placed in care and maintenance by the previous owner, Anglo Coal (Dartbrook Management) Pty Ltd. The mine was acquired by Australian Pacific Coal (APC) (ASX-APC) in 2016 and the mine has remained in care and maintenance.

Dartbrook Mine is managed in accordance with Development Consent DA 231-7-2000 (Development Consent) granted on 28 August 2001 under the *Environmental Planning and Assessment Act 1979* (EP&A Act).

DA 231-7-2000 originally allowed for underground longwall mining and associated surface activities to be carried out until 5 December 2022.

In February 2018, APC lodged an application to modify DA 231-07-2000 (MOD7) to provide further operational options for Dartbrook (in addition to those already approved) including the recommencement of mining via limited bord and pillar within the Kayuga Seam and to extend the approval period under DA 231-07-2000 by 5 years (i.e. to 5 December 2027).

MOD7 was determined by the NSW Independent Planning Commission (IPC) on 9 August 2019. The IPC approved the proposed bord and pillar mining activities but not the proposed five-year extension to the consent approval period. Without the extension to operate under DA 231-07-2000 for a further five years, it was impractical to recommence mining at Dartbrook. In November 2019, an appeal was lodged against the IPC determination of MOD7 in the NSW Land and Environment Court.

The MOD7 application was the subject of a conciliation conference conducted pursuant to Section 34 of the *Land and Environment Court Act 1979* (LEC Act). APC entered into a Section 34 agreement with the Minister for Planning and Public Spaces on 21 December 2021. This agreement gave effect to MOD7 and extended the approved duration of mining operations until 5 December 2027.

Operations at Dartbrook are proposed to commence in 2023. Recommencement will involve a re-establishment period of up to 6 months followed by a ramp up of production to produce an initial target of approximately 3 million tonnes per annum (Mtpa) of Run of Mine (ROM) coal. The required post approvals will be secured prior to production.

The proposed recommencement works will be in the approved disturbance boundary. All future mining as approved under MOD7 will be within the approved underground mining footprint and will be designed to minimise mine subsidence.

## 1.2 DOCUMENT PURPOSE

This Waste Management Plan was prepared in accordance with Schedule 2, Condition 5.2 of DA 231-07-2000. This condition requires the preparation of a waste management plan prior to “commencement of construction or Mining Operations”, which refers to the initial commencement of development activities under DA 231-07-2000 rather than the scheduled recommencement of operations in 2023. As such, this Waste Management Plan was approved by Planning NSW on 9 December 2002.

This latest update reflects changes in ownership and management of Dartbrook Mine since its approval. This revision does not require approval as Schedule 2, Condition 5.2 of DA 231-07-2000 is not triggered by recommencement of mining.

The plan addresses waste management for all aspects of Dartbrook operations including:

- Underground mining;
- Operation of the existing surface infrastructure, including the West Site industrial area and the East Site Coal Handling and Preparation Plant (CHPP) area; and
- Construction and progressive rehabilitation of the Rejects Emplacement Area (REA);

Figure 2 and Figure 3 show the existing surface infrastructure at Dartbrook Mine.

## 1.3 MANAGEMENT PLAN REQUIREMENTS

The primary objective of the plan is to ensure that waste generated by mining operations is managed responsibly and in compliance with regulatory requirements (including DA 231-07-2000).

Schedule 2, Condition 5.2 of DA 231-07-2000 outlines the information that must be included within the Waste Management Plan. Table 1 indicates where the required information is presented in this plan.

AQC holds Environmental Protection Licence (EPL) 4885 granted under the *Protection of the Environment Operations Act 1997* (POEO Act), which contains conditions related to waste management. Table 1 also presents the relevant requirements under EPL 4885.

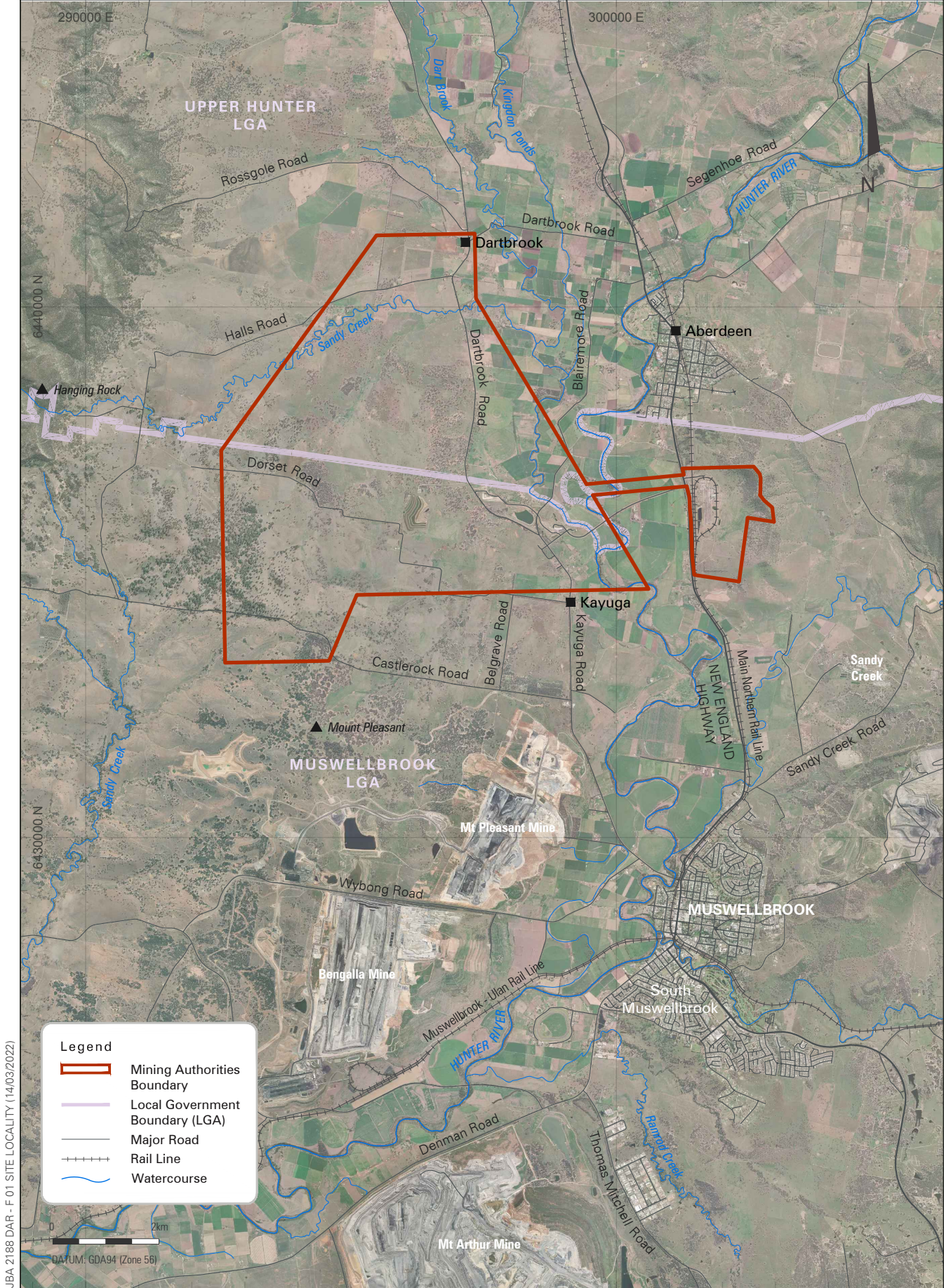
**Table 1 Regulatory Requirements**

Condition	Requirement	Reference
<b>DA 231-07-2000</b>		
3.2(f)(i)	<p><u>Management Plan Requirements</u></p> <p>Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:</p> <p>A summary of relevant background or baseline data;</p>	<b>Section 3.1</b>
3.2(f)(ii)	<p>Details of:</p> <ul style="list-style-type: none"> <li>• the relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> <li>• any relevant limits or performance measures and criteria; and Dartbrook Extended Underground Coal Mine;</li> <li>• the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;</li> </ul>	<b>Section 2</b>
3.2(f)(iii)	Description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	<b>Section 3.2</b>

Condition	Requirement	Reference
3.2(f)(iv)	A program to monitor and report on the: <ul style="list-style-type: none"> <li>impacts and environmental performance of the development; and</li> <li>effectiveness of the management measures set out pursuant to paragraph (iii)</li> </ul>	Sections 3.2.5 & 3.2.7
3.2(f)(v)	A contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Section 5.4
3.2(f)(vi)	A program to investigate and implement way to improve the environmental performance of the development over time;	Section 3.2.7
3.2(f)(vii)	A protocol for managing and reporting any: <ul style="list-style-type: none"> <li>incident, non-compliance or exceedance of any impact assessment criterion or performance criterion;</li> <li>complaint; or</li> <li>failure to comply with other statutory requirements;</li> </ul>	Sections 4.2, 5.2 & 5-3
3.2(f)(viii)	A protocol for periodic review of the plan.	Section 6
5.2(a)	<b>Waste</b> Prior to the commencement of construction or Mining Operations, the Applicant must prepare and implement a Waste Management Plan for the DA area in consultation with MSC and to the satisfaction of the Secretary. The Plan must include, but not be limited to:	This Plan.
5.2(a)(i)	details of measures to facilitate waste management on site; details of compliance with the Applicant's obligations under the <i>Protection of the Environment Operations Act (1997)</i> ;	Section 3.2 and Appendix A
5.2(a)(ii)	identification of all types and quantities of waste materials produced at the mine site during construction, commissioning and operation;	Section 3.1 and Appendix A
5.2(a)(iii)	programs aimed at minimising the production of waste at the mine site through the implementation of operational and management measures;	Section 3.2.1 and Appendix A
5.2(a)(iv)	details of the potential reuse and recycling avenues for waste materials produced at the mine site, including collection and handling procedures;	Section 3.2.3 and Appendix A
5.2(a)(v)	details of appropriate disposal routes in the event that reuse and recycling avenues are not available or are not practicable; and	Section 3.2.4 and Appendix A
5.2(a)(vi)	programs for involving and encouraging employees and contractors to minimise waste production at the mine site and reuse / recycling where appropriate.	Section 3.2.8
5.2(b)	The Applicant must dispose of all solid waste and putrescible matter from the site to the satisfaction of MSC or EPA, as relevant;	Section 3.2.4 and Appendix A
5.2(c)	The Applicant must dispose of all treated sewage and sullage to the satisfaction of MSC and in accordance with the EPA licence.	Section 3.2.6
<b>EPL 4885</b>		
O1.1(b)	Licensed activities must be carried out in a competent matter, This includes: the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Section 3.2 and Appendix A

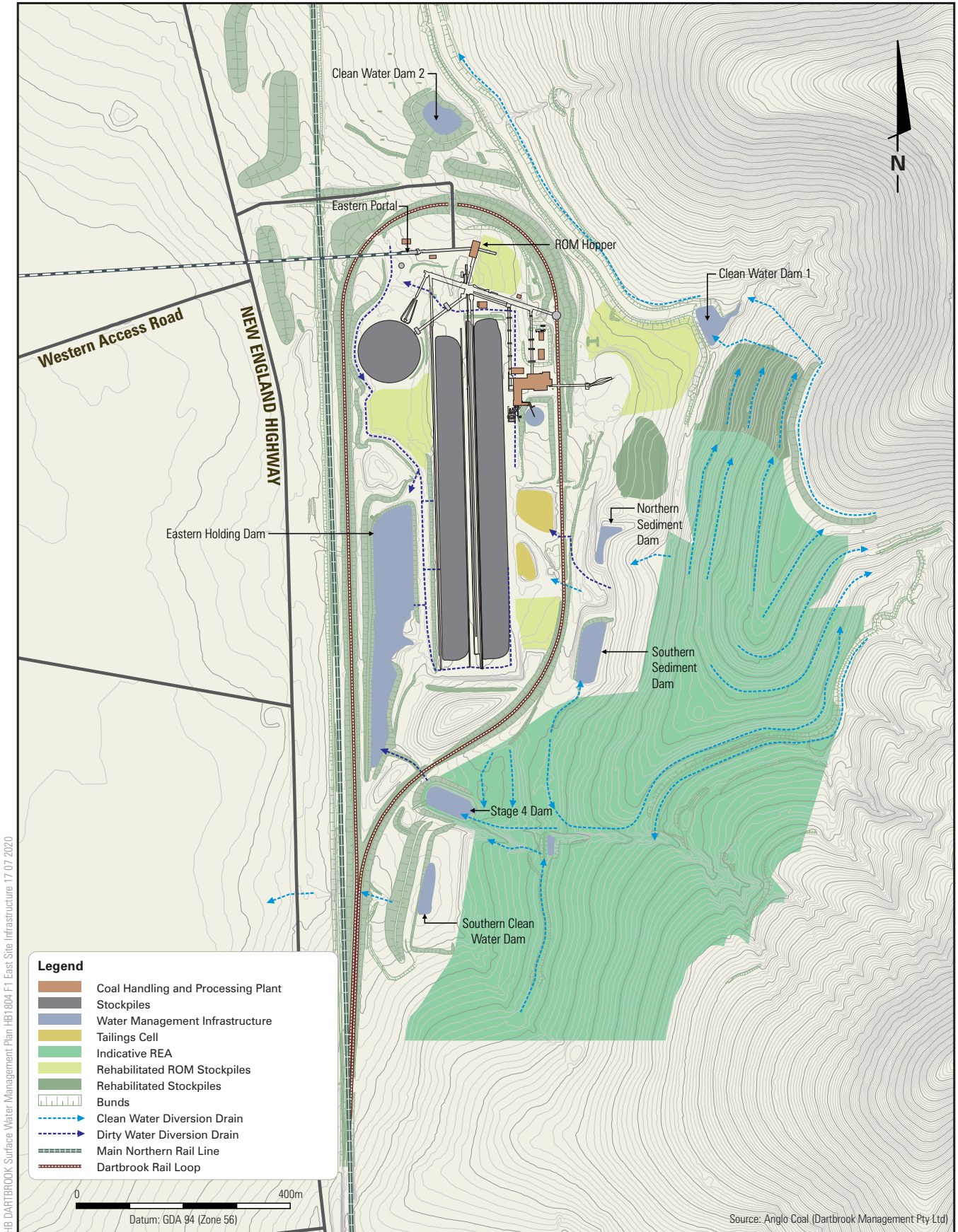
Condition	Requirement	Reference
O4.1	Irrigation of wastewater must not be carried out if soil moisture conditions are such that surface runoff or ponding is likely to occur.	<b>Section 3.2.6</b>
O4.2	No irrigation, application or storage of sewage effluent or sludge must be undertaken within 50 metres of any water course, or on any other area except the defined irrigation area.	<b>Section 3.2.6</b>





JBA 2188 DAR - F 01 SITE LOCALITY (14/03/2022)

DARTBROOK MINE

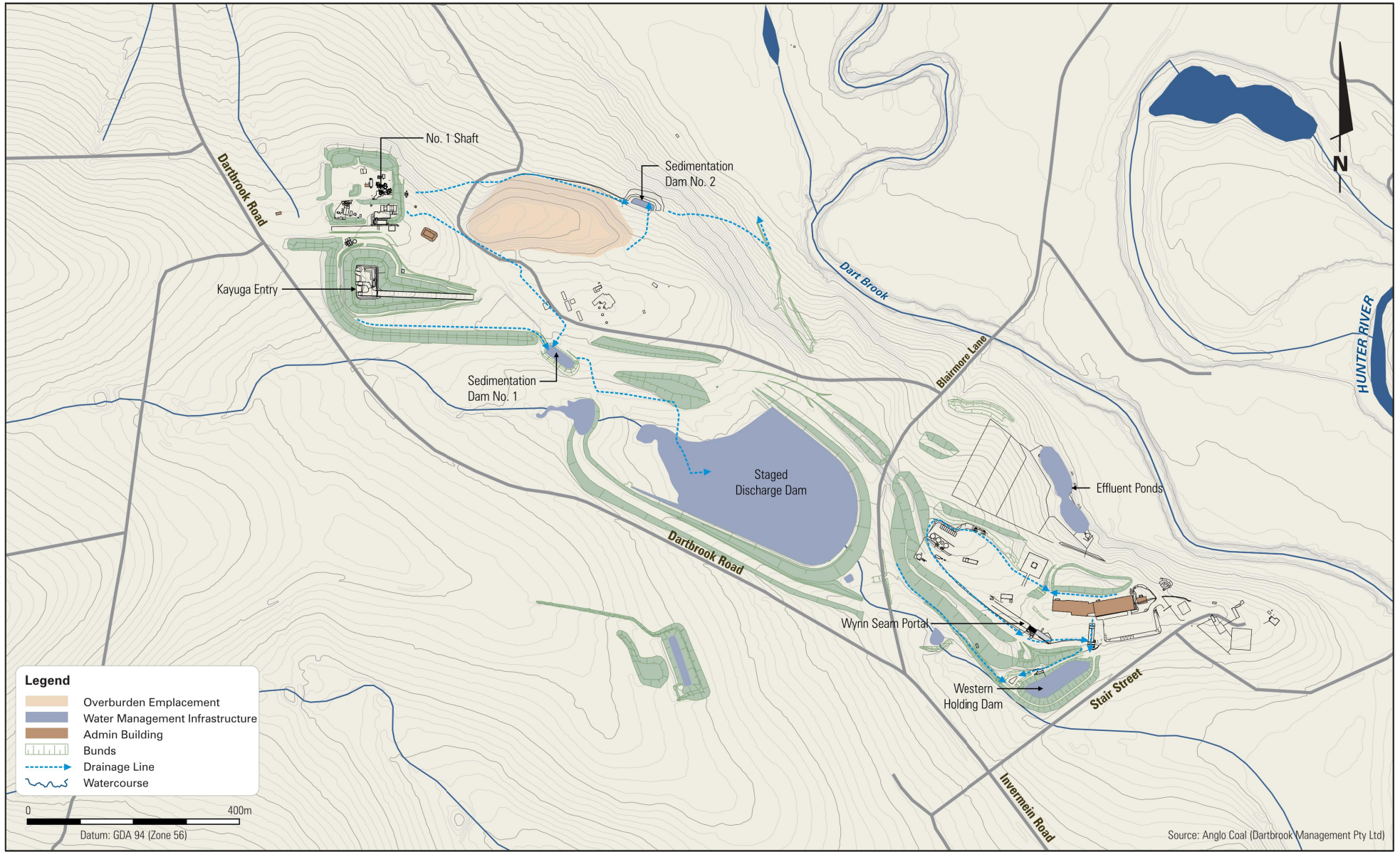


DARTBROOK MINE

Dartbrook Mine Layout - East Site

**FIGURE 2**

JBA 2188 DAR - F 03 EXISTING SITE LAYOUT (WEST) (25/02/2022)



DARTBROOK MINE

Dartbrook Mine Layout - West Site



**FIGURE 3**

## 2. REGULATORY REQUIREMENTS

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### 2.1 OVERVIEW

Legislative requirements related to the generation, storage, management, transport and disposal of waste are contained in the POEO Act, *Protection of the Environment Operations (Waste) Regulation 2014* (POEO Waste Regulation) and EPL 4885 (which was granted under the POEO Act).

The Development Consent does not prescribe any performance measures related to waste management.

### 2.2 POEO ACT

#### 2.2.1 Licensing Requirements

An EPL is required to undertake any 'scheduled activities' listed under Schedule 1 of the POEO Act. Schedule 1 lists the following premises-based scheduled activities related to waste:

- Waste disposal (application to land);
- Waste disposal (thermal treatment);
- Waste processing (non-thermal treatment); and
- Waste storage.

Dartbrook Mine does not receive any waste from off-site and therefore does not undertake any of these scheduled activities.

Schedule 1 of the POEO Act also lists the following scheduled activities that are not premises-based:

- Mobile waste processing; and
- Transportation of trackable waste.

All transportation of waste off-site is undertaken by licensed waste contractors, rather than Dartbrook Mine itself.

AQC does not undertake any of the aforementioned scheduled activities. Although AQC holds EPL 4885 to authorise coal mining, the waste management activities at Dartbrook Mine do not need to be subject to an EPL.

#### 2.2.2 Land Pollution

Part 5.6 of the POEO Act establishes a number of land pollution and waste offences. Pollution of land is an offence unless that pollution is regulated by an EPL. AQC's EPL 4885 authorises the application of treated wastewater within an irrigation area (Discharge Point 5) at the West Site. There is no other disposal of waste on-site that would result in land pollution.

The waste management system described in this Plan has been designed to prevent land pollution and the other waste offences under Part 5.6 of the POEO Act.

### 2.3 CONDITIONS OF EPL 4885

Condition A3.1 of EPL 4885 lists the ancillary activities that are permitted by the licence, which includes:

- Reject disposal (by-product of coal processing) into designated reject area; and

- Sewage treatment systems.

Condition P1.1 of EPL 4885 identifies the effluent irrigation area (at the West Site) as a discharge point. Dartbrook Mine does not undertake any waste treatment or disposal other than the activities authorised by conditions A3.1 and P1.1.

Condition O1.1 of EPL 4885 imposes a general duty to manage waste in a competent manner. **Section 3** outlines waste management measures implemented at Dartbrook Mine.

## **2.4 POEO WASTE REGULATION**

The POEO Waste Regulation primarily applies to the scheduled activities associated with waste, such as waste facilities (e.g. landfills) and transportation. As explained in **Section 2.2.1**, Dartbrook Mine does not engage in any of these scheduled activities.

Clause 92 of the POEO Waste Regulation enables an entity to seek a waste recovery exemption if it intends to undertake land application of waste. The spraying of treated effluent within the irrigation area is currently authorised by EPL 4885. No other waste will be disposed of at Dartbrook Mine. Therefore, it is not necessary to obtain a waste recovery exemption.

## 3. WASTE MANAGEMENT

### 3.1 WASTE CHARACTERISTICS

The POEO Act and 'Waste Classification Guidelines' (EPA, 2014) prescribe six general classes of waste:

- Special waste;
- Liquid waste;
- Hazardous waste;
- Restricted solid waste;
- General solid waste (putrescible); and
- General solid waste (non-putrescible).

Most of the waste generated at Dartbrook Mine is either liquid waste or general solid waste. Future operations will also generate small quantities of special waste (used tyres) and hazardous waste (batteries and paints). A detailed register of the typical waste streams at Dartbrook Mine is provided in **Appendix A**. The management of stormwater and mine water is addressed in the Site Water Management Plan.

The quantities of waste generated during the past four years of care and maintenance are presented in **Table 2**. These quantities are not a suitable baseline for future mining operations due to the substantially smaller scale of on-site activities during care and maintenance. Data from previous longwall mining operations (prior to 2007) is also unlikely to be representative of future mining operations due to the difference in mining method. Data collected during the first few years of mining after recommencement will form a suitable baseline in due course.

**Table 2 Recent Waste Quantities**

Waste Type	Quantity			
	2019	2020	2021	2022
General waste (t)	3.1	3.75	6.04	9.995
Scrap metal (t)	2.8	2.68	0	1.5
Office paper and co-mingled recyclables (t)	0.2	0.07	0.4	0.015
Sewage sludge (L)	0	0	0	0
Waste oil (L)	0	4,200	0	0

### 3.2 MANAGEMENT STRATEGIES

General waste management strategies that will be implemented at Dartbrook are as follows:

- Waste minimisation;
- Waste separation and storage;
- Re-use and recycling;
- Transportation and disposal procedures;
- Record keeping;
- Waste management reviews; and

- Workforce training.

Specific strategies for each waste stream generated at Dartbrook Mine are specified in **Appendix A**.

### **3.2.1 Waste Minimisation**

Dartbrook will implement the following operating practices to minimise the generation of waste:

- Employing best practice operating methods, which minimise the use of resources and consequent waste generated;
- Purchasing products with less packaging and waste than comparable products, where price and quality permit; and
- Undertaking an annual waste management review that will include identification of potential areas for further waste minimisation (see **Section 3.2.7**).

### **3.2.2 Waste Separation and Storage**

Different waste streams will be collected, stored and disposed of separately (as outlined in **Appendix A**). This will minimise the potential for contamination of general waste by hazardous and special wastes, and facilitate effective waste management.

Wastes will be stored temporarily on site until sufficient quantities are available to warrant collection by waste contractors. Adequate containment will be provided in waste storage areas, where necessary, to prevent the leaching of contaminants into the surrounding environment. Waste storage areas will also be managed to minimise the risk of fire.

### **3.2.3 Reuse and Recycling**

Waste material will be reused in other applications, or recycled, where practicable. As indicated in the waste schedule (**Appendix A**), the following waste materials will be reused or recycled:

- Waste oil from vehicle servicing (collected for recycling by a licensed waste contractor);
- Domestic recyclables such as glass, cardboard, paper, newspaper, plastic containers, milk and juice containers, steel cans and aluminium cans (collected for recycling by a licensed waste contractor);
- Cartridges from printers (collected by the suppliers for recycling);
- Heavy vehicle tyres (repaired and reused, as far as possible);
- Scrap metal, including metal drums (mended and reused, where feasible, or collected for recycling by a licensed waste contractor);
- Vegetative matter from clearing of vegetation (used for habitat re-instatement or chipped and used for landscaping, where possible); and
- Wooden pallets (reused underground, or collected by an appropriately licensed waste contractor).

Further reuse and recycling options will be explored throughout Dartbrook's operations. **Section 3.2.7** describes the annual waste management review, which will include the identification of any further reuse and recycling opportunities.

### **3.2.4 Transportation and Off-site Disposal**

All waste requiring off-site disposal is transported to licenced waste facilities by waste contractors. For all waste types, Dartbrook requires waste contractors to provide proof that the waste disposal facility is lawful and is

licensed to receive the waste type (condition-precedent). In addition, Dartbrook ensures that it accurately identifies all wastes to the waste contractor in accordance with the *Waste Classification Guidelines* (EPA, 2014).

Waste contractors are responsible for obtaining and maintaining the necessary licences under the POEO Act and POEO Waste Regulation. Although Dartbrook does not require any such licences, it will conduct the appropriate due diligence checks to ensure that its waste contractors are appropriately licensed. All waste transport contractors are required to:

- Prove that they are an "authorised agent" under the POEO Waste Regulation;
- Prove that they have the necessary waste transport licenses under the POEO Waste Regulation (condition-precedent);
- Maintain such licences for the term of the contract; and
- Issue a waste delivery receipt to Dartbrook for each load detailing the name and address of the facility where waste was delivered, within 21 days of the waste being collected by the contractor.

### **3.2.5 Record Keeping**

Dartbrook maintains detailed records of the waste transported from the site. These records include the following information:

- Name, address, and licence number of the authorised contractor for each load;
- Date of collection from site;
- Quantities of waste removed (itemised according to type of material); and
- Copies of waste delivery receipts.

These records, copies of waste contractor contracts, and waste delivery receipts will be kept for at least 3 years and will be made available to EPA officers on request. Dartbrook will generally follow up with the EPA if a waste delivery receipt is not received from the waste contractor within 21 days of removal of the waste from site.

### **3.2.6 Wastewater Management**

All wastewater generated on-site is treated using the sewage treatment plant located at the West Site. Treated effluent is managed using the following methods (in order of priority):

- Transferred to the effluent ponds for passive evaporation;
- Stored on-site (within the effluent ponds and storage tanks) until it is removed by a waste contractor; or
- Applied to the effluent irrigation area in accordance with EPL 4885.

Although EPL 4885 authorises the application of treated effluent to land, this management method will only be employed where the quantities of treated effluent exceed the storage capacity with the effluent ponds and tanks.

Sewage sludge generated by the wastewater treatment process is transported and disposed of off-site by a licensed waste contractor.

### **3.2.7 Waste Management Reviews**

Dartbrook will review site waste management and implementation of the Waste Management Plan annually. The review will focus on continuous improvement in waste management practices and particularly the areas of waste minimisation, recycling, and disposal options. The reviews will also include a review of the waste schedule (see **Appendix A**) to ensure that it is kept up to date.



Waste contractors will also be reviewed before granting/renewal of their contracts. These reviews will include confirmation that waste contractors hold all necessary licences.

### **3.2.8 Workforce Training**

The entire workforce is involved, to varying degrees, in the implementation of the Waste Management Plan. Workforce training in waste management is therefore a key requirement of the plan. Induction training, toolbox talks, and specialised training tailored to the requirements of particular work groups have been developed to educate all employees and contractors of the waste management strategies and practices described in this plan.

Training will focus on encouraging employees and contractors to minimise waste production at the mine site, dispose of wastes responsibly, and reuse and/or recycle waste, where appropriate.

## 4. REPORTING

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### 4.1 ANNUAL REPORTING

Dartbrook's Development Consent does not make specific reference to reporting requirements for waste management. However, Dartbrook will report on the following issues in relation to waste management in its Annual Review (AR):

- Amounts of waste removed from site,
- Any instances of non-compliance with this management plan or the POEO Act, and any remedial action taken;
- Results of the annual waste management review (**Section 3.2.7**), and
- All waste related incidents (if any).

The AR will be prepared and distributed in accordance with Condition 9.2 (c) of DA 231-07-2000.

### 4.2 INCIDENT REPORTING

An "incident" is defined under DA 231-07-2000 as "an occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance".

All Dartbrook Mine personnel are required to immediately report a potential incident to their work supervisor or the Environmental Officer. If that occurrence meets the definition of an "incident", it will be reported to the relevant regulators in accordance with Condition 9.3(a) under Schedule 2 of DA 231-07-2000. This condition states:

*Incident Notification*

*(a) The Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing to [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au) and identify the development (including the development application number and name) and set out the location and nature of the incident.*

In addition, any incident that results in "material harm to the environment" (as defined under the POEO Act) will be reported in accordance with the Pollution Incident Response Management Plan prepared in accordance with EPL 4885.

## 5. IMPLEMENTATION

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### 5.1 KEY RESPONSIBILITIES

The key personnel with responsibility for environmental management on the mine site and for ensuring that the requirements of this management plan are implemented is the Environmental Officer. Dartbrook's Environmental Officer's specific responsibilities include:

- Ensuring that all personnel and contractors are given induction training in environmental awareness, legal responsibilities, and the requirements of the Waste Management Plan;
- Conducting annual waste management reviews (**Section 3.2.7**);
- Maintaining the waste schedule;
- The preparation and administration of contracts for waste contractors in accordance with **Section 3.2.4**;
- Keeping waste records in accordance with **Section 3.2.5**;
- Monitoring waste storage areas and arranging collection of wastes from site by licensed contractors; and
- Reporting as per **Section 4**.

All employees and contractors will be responsible for undertaking waste management practices according to the requirements of this plan. Each work group will be responsible for the management of waste in its work area, under the general guidance of Dartbrook's Environmental Officer.

### 5.2 COMPLAINTS

Dartbrook maintains a 24-hour response line. Any dust complaints are managed in accordance with the Dartbrook Complaints Handling Protocol. The process for responding to complaints varies depending on the nature of the complaint but generally includes the following steps:

- The Environmental Officer will contact the complainant and full details will be recorded in the complaints register;
- The Environmental Officer will investigate the matter to determine if activities at Dartbrook Mine may have contributed to the subject of the complaint;
- If Dartbrook Mine is determined to be a contributing factor, an internal investigation will be undertaken to determine the cause of the event leading to the complaint;
- If necessary, corrective actions will be implemented to rectify any consequences of the event (if possible) and/or prevent similar events from recurring in the future; and
- The Environmental Officer will notify the complainant of the outcome of the internal investigation, including any corrective actions.

### 5.3 NON-COMPLIANCES

A "non-compliance" is defined under DA 231-07-2000 as "An occurrence, set of circumstances or development that is a breach of this consent". Any event that meets this definition will be reported in accordance with Condition 9.3(b) under Schedule 2 of DA 231-07-2000 which states that:

*Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing to [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au) and identify the*

*development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.*

Condition 9.3(b) under Schedule 2 of DA 231-07-2000 clarifies that a non-compliance which has been notified as an incident (see **Section 4.2**) does not also need to be notified as a non-compliance.

## **5.4 CONTINGENCY PLAN**

A contingency plan describes the corrective actions that will be implemented in the event of an unexpected impact.

The Development Consent does not prescribe any performance measures related to waste management. As a consequence, unexpected impacts associated with waste are likely to be dealt with as either an incident or non-compliance (as outlined in **Section 4.2** and **Section 5.3**, respectively). However, if there is an unexpected impact that is neither an incident nor non-compliance, the following contingency plan will be implemented:

- Dartbrook will investigate the cause of the unexpected impact (with assistance from suitably qualified experts, where appropriate);
- If the investigation determines that Dartbrook Mine is a material cause of the impact, DPE will be notified of the unexpected impact;
- Dartbrook will implement reasonable and feasible response actions; and
- If necessary, this management plan will be updated to include the response actions.

## 6. REVIEW REQUIREMENTS

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This Waste Management Plan will be reviewed in accordance with Condition 3.2 (k), which requires that management plans are reviewed within three months of the following:

- *The notification of an incident under Condition 9.3 (a);*
- *The submission of an Annual Review under Condition 9.2 (a);*
- *The submission of an Independent Environmental Audit (IEA) under Condition 8.1 (a); or*
- *The approval of any modification of the conditions of this consent (unless the condition specifies otherwise), the suitability of existing strategies, plans and programs required under this consent must be reviewed by the Applicant.*

It must be noted that a review of this Plan does not necessitate revisions, as the Plan may continue to be suitable for purpose. However, if revisions are necessary, the revised plan will be submitted for the Planning Secretary's approval in accordance with Condition 3.2(l) of the Development Consent. Condition 3.2(l) states:

*"... if necessary, to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Secretary. Where revisions are required, the revised document must be submitted to the Secretary for approval within six weeks of the completion of the review on Condition 3.2 (j).*

*This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development."*

## 7. REFERENCES

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- Environment Protection Authority (2014), *Waste Classification Guidelines*.

## 8. ABBREVIATIONS

Abbreviation	Description
AQC	Australian Pacific Coal Limited
AR	Annual Review
CHPP	Coal Handling and Preparation Plant
DPE	Department of Planning and Environment
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPA	Environmental Protection Authority
EPL	Environmental Protection Licence
IPCN	Independent Planning Commission
km	Kilometre
LEC Act	<i>Land and Environment Court Act 1979</i>
MOD7	Modification 7 to DA 231-07-2000
Mtpa	Million tonnes per annum
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
POEO Waste Regulation	<i>Protection of the Environment Operations (Waste) Regulation 2014</i>
REA	Rejects Emplacement Area
ROM	Run of Mine
Tetra	Tetra Resources Pty Ltd
UHSC	Upper Hunter Shire Council

**APPENDIX A**  
**WASTE SCHEDULE**

Table A1 Dartbrook Waste Schedule

Waste Stream	Waste Classification	Management/Disposal Strategy
<b>Vehicle Servicing Wastes</b>		
Waste Grease	Liquid waste	<ul style="list-style-type: none"> <li>Collected in clearly labelled, recycled oil drums and stored in bunded areas.</li> <li>Temporarily stored on site until sufficient quantities are available for collection by an appropriately licensed waste contractor.</li> </ul>
Waste Oils	Liquid waste	<ul style="list-style-type: none"> <li>Stored in clearly labelled storage tanks.</li> <li>Stored in bunded areas to minimise the risk of contamination and fire.</li> <li>Collected by an appropriately licensed waste oil contractor for off-site recycling.</li> </ul>
Oil Filters	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>Oil filters will be drained to ensure that they do not contain free liquids.</li> <li>Collected by an appropriately licensed waste contractor for off-site disposal.</li> </ul>
Oilsoorb (Oil absorbent material that is applied to spills – does not contain free liquids)	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>Collected in clearly labelled, recycled 20 L drums.</li> <li>Temporarily stored on site until sufficient quantities are available for collection by an appropriately licensed waste contractor.</li> </ul>
Oily Rags (do not contain free liquids)	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>Collected in clearly labelled, recycled 20 L drums.</li> <li>Temporarily stored on site until sufficient quantities are available for collection by an appropriately licensed waste contractor.</li> </ul>
Metal Drums	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>Drums may be crushed and placed in a waste skip assigned for scrap metal recycling. All waste oil will be drained from these oil drums prior to crushing and placement in the waste skip.</li> <li>Temporarily stored on site until sufficient quantities are available for collection by an appropriately licensed waste contractor for recycling as scrap metal.</li> </ul>
Heavy Vehicle Tyres (HVTs) From large mining and earthmoving equipment. Light vehicles are serviced off site and consequently light vehicle tyres are not generated as waste.	Special waste	<ul style="list-style-type: none"> <li>Damaged HVTs removed by the tyre supply company and mended wherever feasible.</li> <li>HVTs stockpiled in a specially nominated area on site and placed in rows in which there is access between rows for a water truck for firefighting.</li> <li>Collected by the supplier for off-site disposal.</li> </ul>



Waste Stream	Waste Classification	Management/Disposal Strategy
Air Filters	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>Collected and disposed of by an appropriately licensed waste contractor.</li> </ul>
Vehicle Batteries Lead-acid batteries from heavy vehicles and light vehicles.	Hazardous waste	<ul style="list-style-type: none"> <li>Temporarily stored on site until sufficient quantities are available for collection by an appropriately licensed waste contractor for recycling.</li> </ul>
Coolant Fluids used in machinery.	Liquid waste	<ul style="list-style-type: none"> <li>Transferred to a waste collection tank.</li> <li>Collected by an appropriately licensed waste contractor.</li> </ul>
Scrap Metal Generated through the maintenance of machines and the replacement of machinery parts. Created at the coal handling plant, the workshop and in the pit.	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>Stored in scrap metal bins for recycling where possible, and collected by an appropriately licensed waste contractor, when the quantity warrants collection.</li> </ul>
<b>Wastewater</b>		
Sewage Toilet and bath-house waters produced on site.	Liquid waste	<ul style="list-style-type: none"> <li>Stored in on-site effluent tanks prior to collection and disposal by an appropriately licensed waste contractor.</li> <li>Up to 50 kl/day can be treated at an on-site treatment plant at the West Site. Effluent will be spray irrigated in accordance with the Dartbrook EPL, if required.</li> </ul>
<b>Domestic Waste</b>		
General Waste Domestic waste generated in the kitchenettes, crib rooms and rubbish deposited in the general rubbish bins around the administration areas, maintenance areas and the pit top.	General solid waste (putrescible)	<ul style="list-style-type: none"> <li>Recyclable material from the kitchenettes, muster areas and generally around site collected and stored separately from other non-recyclable rubbish.</li> <li>Recyclable material including glass, paper and newspaper, cardboard, plastic containers with the recycling symbol, milk and juice containers, steel cans and aluminium cans, temporarily stored on site until sufficient quantities are available for collection by an appropriately licensed waste contractor for recycling.</li> <li>Non-recyclable general waste collected and disposed of by a licensed contractor.</li> </ul>
Cardboard from Packaging	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>Stored separately and collected by a licensed waste contractor for recycling.</li> </ul>

Waste Stream	Waste Classification	Management/Disposal Strategy
Waste Paper	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>• Paper, newspapers, envelopes with plastic windows, cardboard, glossy paper and magazines collected and stored separately from other recyclable material</li> <li>• Co-mingled and removed monthly when required.</li> </ul>
Printer Cartridges	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>• Stored in a designated location and collected by the suppliers for recycling.</li> </ul>
Mobile Phone and Radio Batteries Batteries containing heavy metals or requiring special disposal as indicated on the battery.	Hazardous waste	<ul style="list-style-type: none"> <li>• Stored in a designated location and collected by an appropriately licensed waste contractor for recycling.</li> </ul>
<b>Other Waste</b>		
Sediment Sediment collected in sediment traps and drains, including the wash-down area and sedimentation dams.	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>• Clean sediment (not contaminated with coal material) will be collected and stored, with material placed at stable slopes and revegetated.</li> <li>• Coal sediment will be returned to the raw coal stockpile. Any sediment collected downstream of the coal stockpile areas, which are contaminated with coal sediment, will be disposed of in the REA.</li> </ul>
Garden Waste	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>• Where practical, green waste from clearing will be collected and relocated to adjacent habitat areas in accordance with the Flora and Fauna Management Plan. Other green waste will be chipped for landscaping, where practicable.</li> </ul>
Paint	Hazardous waste	<ul style="list-style-type: none"> <li>• Temporarily stored on site in the hazardous waste skip until sufficient quantities are available for collection by an appropriately licensed waste contractor.</li> </ul>
Wooden Pallets Damaged and superfluous wooden pallets.	General solid waste (non-putrescible)	<ul style="list-style-type: none"> <li>• Reused for transporting props underground, or ultimately collected by an appropriately licensed contractor for disposal.</li> </ul>

