Notice

Environmental Protection Act 1994

Decision on amount and form of financial assurance

This notice is issued by the administering authority[1], pursuant to section 296 of the Environmental Protection Act 1994 *to advise the holder of an environmental authority of the decision on the amount and form of financial assurance imposed on the environmental authority.*

To: Bogside Mining Industries Pty Ltd
42 Jordan Terrace
BOWEN HILLS QLD 4006

Cc: PO Box 226
MORNINGSIDE QLD 4170

Email: Mark@bmigroup.com.au

Attention: Mr Mark Dekker

Your reference: EPML00383413
Our reference: 101/0007904

Cc: Department of Natural Resources, Mines and Energy
Mineral Assessment Hub
MineralHub@dnrme.qld.gov.au
My Mines Online
Mines_online@dnrme.qld.gov.au

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Re: Decision on the amount and form of financial assurance.

1. Application details

A replacement plan of operations, including a proposed amount of financial assurance for EPML00383413 was received by the administering authority on 13 March 2019.

2. Environmental authority details

Environmental authority number EPML00383413 effective 3 March 2016 issued to Bogside Mining Industries Pty Ltd.

Property/location description: ML4581.

sch4p4(6) Personal info

[1] The Department of Environment and Science is the administering authority under the *Environmental Protection Act 1994*.

ABN 46 640 294 485

Queensland Government

3. Decision

The administering authority has decided:

- That the total cost of rehabilitation is $818,009.00.
- The total amount of financial assurance to be lodged is $818,009.00 in the form of a bank guarantee.

The approved pro-forma template for a bank guarantee for financial assurance is available for download from the Business and Industry Portal at www.business.qld.gov.au. Please note that the bank guarantee must be from an approved security provider, as defined in the *Financial and Performance Management Standard 2009* (available online at www.legislation.qld.gov.au).

4. Grounds for the decision

Pursuant to section 295 (1) of the *Environmental Protection Act 1994* (EP Act), the administering authority has decided the amount and form of financial assurance (FA) for environmental authority EPML00383413 (the EA) is $818,009.00 in the form of a bank guarantee, for the following reasons:

- On 13 March 2019, a replacement Plan of Operations (Plan) was submitted to the Department of Environment and Science (the department) by Bogside Mining Industries Pty Ltd (BMI) for the EA. The Plan proposed an FA amount of ($818,009.00).
  - On 15 March 2019, the department advised BMI in a letter that the Plan met the content requirements of section 288 of the EP Act.
  - The department has reviewed the proposed FA calculation in accordance with the FA Guideline and has accepted BMI's proposed amount of FA for rehabilitation requirements.
  - The total amount of FA determined by the department is considered to represent the likely costs and expenses that may be incurred taking action to rehabilitate or restore and protect the environment because of environmental harm that may be caused by the mining activities.

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5. Review and appeal rights

You may apply to the administering authority for a review of this decision within 10 business days after receiving this notice. You may also appeal against this decision to the Land Court. Information about your review and appeal rights is attached to this notice. This information is guidance only and you may have other legal rights and obligations.

6. Lodgement of financial assurance

The required financial assurance must be lodged with the Department of Natural Resources, Mines and Energy (DNRME) by 12 June **2019**. Please contact the Mining Registrar DNRME for assistance with lodgement of the financial assurance.

Financial assurance must be lodged in person at, or via registered post to, the following departmental regional office:

Department of Natural Resources, Mines and Energy
PO Box 15216, CITY EAST, QLD 4002
Ph. (07) 3199 8133
Email: mines_online@dnrme.qld.gov.au

sch4p4(6) Personal info

IMPORTANT NOTE: Financial assurance must be lodged before activities are carried out, or allowed to be carried out, under the environmental authority, or by a new environmental authority holder. For an ongoing activity, any required adjustment to financial assurance should be made as soon as possible, and within 20 business days of receiving this decision notice. Failure to comply with this requirement may attract a fine or result in the cancellation or suspension of your environmental authority.

sch4p4(6) Personal information

Signature

15/5/19

Date

Dean Sharpe
Department of Environment and Science
Delegate of the Administering Authority
Environmental Protection Act 1994

Enquiries:
PO Box 7230, Cairns Qld 4870
Phone: (07) 4222 5391

Attachments

Information sheet: Internal review and appeal (ESR/2015/1742).

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Notice

Environmental Protection Act 1994
Annual return

This annual return is relevant to environmental authorities for resource activities or prescribed environmentally relevant activities under sections 308 and 309 of the Environmental Protection Act 1994. [2]

GUIDE

IMPORTANT: This is the period for which all of the questions within this return relate to.

If the anniversary day has changed you must ensure that there is no gap in reporting because of the change.

Annual return notices will be sent to the nominated holder or their identified financial contact. These can be updated at any time via Connect or by contacting the department.

All other correspondence will be sent to all holders.This information must be kept current as it is used for all ongoing correspondence in relation to your environmental authority.

If you require assistance in answering any part of this form, or have any questions about your application please contact Permit and Licence Management. Contact details are at the end of this form.

Annual return details

If you have registered your details in EHP's Connect you can now lodge your annual return online. If you haven't yet registered for Connect, you can do so at : http://qld.gov.au/EnvironmentConnect

1. Annual return period

FROM 14/03/2017 TO 13/03/2018

2. Environmental authority details

ENVIRONMENTAL AUTHORITY NUMBER EPML00383413	
ENVIRONMENTAL AUTHORITY HOLDERS NAMES Bogside Mining Industries Pty Ltd	
NOMINATED HOLDER TO RECEIVE ANNUAL RETURNS Bogside Mining Industries Pty Ltd	
REGISTERED ADDRESS 42 Jordan Terrace BOWEN HILLS QLD 4006	POSTAL ADDRESS PO Box 2117 FORTITUDE VALLEY QLD 4006
CONTACT PERSON Bogside Mining Industries Pty Ltd	PHONE 07 3254 2933
FACSIMILE 33583397	MOBILE sch4p4(6) Persona
EMAIL bogside@bmigroup.com.au; accountspayable@bmigroup.com.au	

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3. **Have any of the activities on your environmental authority been altered?**

☐ Yes→ Your environmental authority may need to be amended.

☐ No

4. **Have you fully complied with all of the conditions of your environmental authority (including if applicable the eligibility criteria)?**

☐ Yes

☐ No →

☐ I/We have already provided all non-compliance information to the administering authority. No further documentation has been attached.

OR

☐ I/We have not yet provided non-compliance information and have attached the following documentation.

a) A statement describing the non-compliance/ incident including photographs where appropriate.
b) A statement describing the environmental impacts resulting from the non-compliance/ incident.
c) A statement describing the actions taken to repair any damage to the environment resulting from the non- compliance/incident.
d) Details of any monitoring data which exceeded any of the environmental limits set out in the environmental authority.

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An ineligible resource activity for CSG means one which is not subject to an ERA Standard and therefore does not have eligibility criteria and standard conditions.

Management criteria for CSG water would have been provided as part of the environmental authority application.

5. **Is the environmental authority for an ineligible resource activity for coal seam gas (CSG)?**

☐ Yes → ☐ I/We have attached the following documentation.

a) An evaluation of whether the management of CSG water has been effective when assessed against the management criteria.
b) If the evaluation (mentioned above), determines that water has not been effectively managed against the management criteria, also include details of the action that will be taken to ensure that the water will be effectively managed in the future, including timeframes for action.

☐ No

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If a plan of operations applies and financial years are used to align the plan this can be stated. Otherwise, state the period on which the plan is based (e.g**. Jan 2009 to Jan 2010**).

6. Is the environmental authority for a resource activity?

☐ Yes →

☐ I/We have provided a summary of the onsite disturbance and rehabilitation in the table below based on the annual return period.

OR

☐ I/We have provided a summary of the onsite disturbance and rehabilitation in the table below based on a period which aligns with a plan of operations being _____to____.

☐ No

'Progressive certification' means that a particular area within a relevant tenure for a resource project has been rehabilitated under all relevant requirements as set out in section 318Z of the EP Act

Total area of remaining disturbance at the end of the period is the total area of disturbance prior to the period plus any additional disturbance less any areas rehabilitated and approved under progressive certification during the period.

Area of disturbance/rehabilitation (hectares)	**Planned**	**Actual**
Total area of disturbance prior to reporting period	31ha	31ha
Total area disturbed during the period	nil	nil
Total area rehabilitated and approved under progressive certification during the period	nil	nil
Total area of remaining disturbance (including rehabilitated areas that have not yet been progressively certified) at the end of the period	31ha	31ha
Total area of ongoing (uncertified) rehabilitation for the period	31ha	31ha

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7. Are you claiming a reduced annual fee?

To determine if you are eligible for a reduced annual fee, please refer to the information sheet "Paying a reduced annual fee" (ESR/2015/1723) [4] which is available at **www.qld.gov.au**

☐ Yes →

☐ I/We have completed Attachment 1: Claiming a reduced annual fee.

☐ No

Monitoring and reporting does not need to be resubmitted with this return, unless it is a specific requirement within the conditions of your environmental authority, in which case monitoring must be provided.

8. **Does a condition of your environmental authority require you to carry out any monitoring and/or reporting?**

☐ Yes → ☐ Go to question 9

☐ No

WaTERS is the Wastewater Tracking and Electronic Reporting System (WaTERS) database formerly known as the Point Source Database.

Important note: Only certain operations will submit data to the WaTERS database. If your site has not been implemented to WaTERS, select 'no' at question 9 and go to question 10.

For more information about WaTERS, email psd.help@qld.gov.au

9. **Have you submitted the monitoring and reporting to the WaTERS database (formerly point source database)? – (if this annual return is for a mining lease, please select Not applicable)**

☐ Yes →
- ☐ All monitoring and reporting has been submitted to WaTERS.

OR

- ☐ Only some of the monitoring and reporting has been submitted to WaTERS. Go to question 10. Any data that has not been submitted to WaTERS needs to be detailed at question 11.

☐ No

☐ Not Applicable

10. **Has all of the monitoring and reporting been carried out in accordance with your environmental authority? – (if this annual return is for a mining lease, please select Not applicable)**

☐ Yes

☐ No → Please ensure question 4 is filled out correctly and includes all of the necessary details.

☐ Not Applicable

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Please do not submit the monitoring data or report(s) with this annual return.

You must keep reports so they can be accessed if requested. You may need to provide them following a request by an authorised officer or when surrendering or cancelling your environmental authority.

11. **Provide a summary of your monitoring and reporting. – (if this annual return is for a mining lease, please select Not applicable)**

REPORT AND/OR MONITORING DATA TITLE	PREPARED BY	DATES COVERED BY REPORT	LOCATION OF REPORT
Water/Ground water monitoring	MR□ Environmental	1st January 2017 to 30th March 2018	4/8 Miller St, Murarrie
Dust monitoring	MR□ Environmental	1st January 2017 to 30th March 2018	4/8 Miller St, Murarrie

☐ Not Applicable

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Declaration

Note: If you have not told the truth in this annual return you may be prosecuted.

- I/We, being the holders identified in question 2, acknowledge that all information supplied on or with this annual return may be made available upon request, subject to the provisions of the Right to Information Act 2009 and the Evidence Act 1977.
- I am the holder of or the appointed signatory for the environmental authority.
- I am aware that under section 480 of the Environmental Protection Act 1994, it is an offence to knowingly give information that I know is false, misleading or incomplete in any material particular.
- I have supplied all of the required information.

SIGNATURE sch4p4(6) Personal informati	
NAME OF SIGNATORY (IF APPLICABLE) sch4p4(6) Personal inform	
POSITION OF SIGNATORY (E.G. DIRECTOR, CEO, MANAGER, OWNER, PARTNER) Environmental Manager	DATE 10/09/2018

Complete and submit the annual return by 14/03/2018 one of following methods:

Online via Connect (Preferred method)

Go online and complete the annual return via http://qld.gov.au/EnvironmentConnect

Further information about the department's digital platform for online services can be found at the link above.

Email **palm@ehp.qld.gov.au**

Post Permit and Licence Management

Department of Environment and Heritage Protection

GPO Box 2454 Brisbane QLD 4001

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Privacy statement

The department is committed to protecting the privacy, accuracy and security of your personal information in accordance with the Information Privacy Act 2009. The information is being collected in accordance with sections 308–309 of the Environmental Protection Act 1994. The information will only be accessed by authorised employees within the department. Some of this information may be given to the Department of Natural Resources and Mines for the purpose of the joint regulation of mining activities. Your information will not be given to any other person or agency unless you have given us permission or we are authorised or required by law. All information supplied on this form may be disclosed publicly in accordance with the Right to Information Act 2009 and Evidence Act 1977. For queries about privacy matters email: **privacy@ehp.qld.gov.au** or telephone: (07) 3330 5436.

Applicant checklist

☐ Annual return signed and completed (all questions applicable are answered)

☐ Attachment 1—Reduced annual fee documentation attached (if applicable)

☐ Annual fee paid or enclosed (if applicable)

Attachment 1: Claiming a reduced annual fee

This attachment is to be used to claim a reduced annual fee under sections 121 to 127 of the Environmental Protection Regulation 2008 and is to be attached to the annual return for an environmental authority.

1. Eligibility for a reduced annual fee

Refer to the information sheet "Paying a reduced annual fee" (ESR/2015/1723) for details of the eligibility criteria for claiming a reduced annual fee and the information to accompany the annual return before completing this attachment.

A reduced annual fee of up to 50% is available if all of the following are met.

☐ **The holder of the environmental authority has been operating under the environmental authority for at least one year.**

☐ **There has been no compliance action event for the holder in the past 3 years (or for the duration of the authority if it is less than 3 years old).**

☐ **No holder of the environmental authority has had a disqualifying event in the past year.**

☐ **The reduced annual fee will be paid by the due date.**

☐ **The annual return will be completed and submitted by the due date.**

☐ **All information required under section 2 (below) will be submitted by the due date.**

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2. Criteria for a reduced annual fee

I/We are claiming a reduced annual fee for the following criteria and have attached the documents as required.

☐ **All holders of the environmental authority are approved partners of ecoBiz—10% discount**

INSERT DATE OF MOST RECENT APPROVAL

☐ **The environmental authority is operating under an environmental management system (EMS) certified by an accredited body as being compliant with ASNZ ISO: 14001: 2004 Environmental Management Systems—20% discount**

☐ I/We have included a statutory declaration, completed by a **suitably qualified person**, verifying that:

- all the activities carried out under this environmental authority were carried out in accordance with the EMS last year; and
- I am complying with the conditions of the environmental authority.

☐ **The environmental authority is operating under the National Feedlot Accreditation Scheme, Rules of Accreditation published in 2011 by AUS-MEAT Limited ABN 44 082 528 881—20% discount**

☐ I/We have completed and included a statutory declaration[9] verifying that:

- all the activities carried out under this environmental authority were carried out in accordance with the EMS last year; and
- I am complying with the conditions of the environmental authority.

☐ **Reduced emissions profile—20% discount**

☐ I/We certify that the relevant activity, or the activity with the highest aggregate environmental score (AES), has an **emissions score** that is at least 25% less than the **emissions score** stated to apply for the activity under the environmental emission profile.

☐ **Relevant resource activity environmental authority**[10] **—50% discount**

☐ I/We have included a statutory declaration[11] verifying that:

- the holder has stopped extracting the resource that is the subject of the environmental authority and does not intend to recommence extracting the resource.
- the holder is currently carrying out rehabilitation of the land that is the subject of the environmental authority.

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Declaration

Note: There are significant penalties under the Environmental Protection Act 1994 for supplying false and/or misleading information that will apply in relation to claiming reduced annual fees.

- I/We, being the holders identified in question 2, acknowledge that all information supplied on or with this annual return may be made available upon request, subject to the provisions of the Right to Information Act 2009 and the Evidence Act 1977.
- I am the holder of or the appointed signatory for the environmental authority.
- I am aware that under section 480 of the Environmental Protection Act 1994, it is an offence to knowingly give information that I know is false, misleading or incomplete in any material particular.
- I have supplied all of the required information.

SIGNATURE	
NAME OF SIGNATORY (IF APPLICABLE)	
POSITION OF SIGNATORY (E.G. DIRECTOR, CEO, MANAGER, OWNER, PARTNER)	DATE

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Checklist

☐ If claiming a reduced annual fee for environmental management system, the statutory declaration is attached.

☐ If claiming a reduced annual fee for a relevant resource activity[10] environmental authority, the statutory declaration is attached.

Privacy statement

The department is committed to protecting the privacy, accuracy and security of your personal information in accordance with the Information Privacy Act 2009. The information is being collected in accordance with sections 308–309 of the Environmental Protection Act 1994. The information will only be accessed by authorised employees within the department. Some of this information may be given to the Department of Natural Resources and Mines for the purpose of the joint regulation of mining activities. Your information will not be given to any other person or agency unless you have given us permission or we are authorised or required by law. All information supplied on this form may be disclosed publicly in accordance with the Right to Information Act 2009 and Evidence Act 1977. For queries about privacy matters email: **privacy@ehp.qld.gov.au** or telephone: (07) 3330 5436.

Additional explanation of requirements for claiming a reduced annual fee

Definition of compliance action event

A **compliance action event**, for the holder of a relevant authority, means any of the following directly relating to an activity carried out or a thing omitted to be done under the authority:

(a) the serving of an infringement notice, under the State Penalties Enforcement Act 1999, on the holder for an offence

(b) the issuing of an environmental protection order to the holder

(c) the holder:

  (i) has voluntarily submitted a draft transitional environmental program

  (ii) is acting under an approved transitional environmental program

  (iii) is required to prepare a transitional environmental program, or

  (iv) has, under section 350 of the EP Act, given the administering authority a program notice

(d) the issue of a cost recovery notice to the holder unless—

  (i) the amount claimed under the notice has been fully paid; or

  (ii) the notice has been withdrawn or has otherwise stopped having effect

(e) the holder has been issued with a direction notice under section 363B of the EP Act and:

  (i) the holder complies with the notice, or

  (ii) a proceeding for an offence against section 363E of the EP Act has not started

(f) a proceeding for an environmental offence or an offence under section 363E[6], 363I[7] or 363L[8] of the EP Act (a notice offence), is started or continued against the holder and has not finished

(g) the holder is convicted of an environmental offence or a notice offence.

Guidance

If a suitable operator has two sites (e.g. Site A and Site B) and two separate environmental authorities, then a compliance event on Site A will not affect access to the discounts for the annual fee on Site B. If both Site A and Site B are licensed under a single environmental authority, a compliance action event at either site will render the suitable operator or environmental authority holder ineligible for a reduced annual fee.

Criteria for suitably qualified person

A suitably qualified person must have relevant qualifications and experience and be a member of one of the following organisations as set out in schedule 8 of the Environmental Protection Regulation 2008:

- Australasian Radiation Protection Society
- Australian Institute of Agricultural Science and Technology
- Australian Institute of Geoscientists
- Australian Society of Soil Science
- Engineers Australia
- Environmental Health Australia
- Environment Institute of Australia and New Zealand
- Institute of Explosives Engineers
- Institutions of Chemical Engineers Australia
- Institute of Engineering and Mining Surveyors Australia
- Planning Institute of Australia

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- South Pacific Environmental Radioactivity Association
- The Australian Institute of Mining and Metallurgy
- The Institution of Surveyors Australia
- The Royal Australian Chemical Institute

For the approved EMS discount, the suitably qualified person should have demonstrated experience and qualifications that relate to the development and operation of environmental management systems, and the assessment of compliance with the conditions of a development approval or an environmental authority.

Information on the emissions score

The emissions score for a relevant activity, means the emissions score component of the aggregate environmental score (AES) for the activity. The AES is scheduled in the Environmental Protection Regulation 2008.

The AES is made up of two components:

- the emissions score; and
- the site attributes score.

The emissions score is the average annual emissions to air, land and water, and a detailed breakdown of contaminants and volumes is provided for each ERA in the "Environmental emission profiles" on the department's website **www.ehp.qld.gov.au.**

Data should be based on the annual average emissions for each contaminant in order to accommodate seasonality and other fluctuations. It does not matter how the emissions reduction is achieved or how many contaminants contribute to the overall reduction.

Data collection should be consistent with the guidelines and methodologies contained in:

- Air Quality Sampling Manuals and Water Quality Sampling Manuals prepared by the Queensland Government which are available on the department's website **www.ehp.qld.gov.au**.
- Annual reporting data from the National Pollutant Inventory for the previous reporting year.

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[2] A failure by the administering authority to give this notice 20 business days before each anniversary day for the environmental authority does not invalidate or otherwise affect the validity of the notice.

[3] These fees are included in the Federal Treasurer's Determination under Division 81 of A New Tax System (Goods and Services Tax) Act 1999. As such, the supplies are exempt from GST.

[4] This is the publication number, which can be used as a search term to find the latest version of the publication at www.qld.gov.au.

[5] Annual fees will apply as applicable under the regulation. Fees may not be applicable for all activities.

[6] Section 363E (Offence not to comply with a direction notice).

[7] Section 363I (Offence not to comply with clean-up notice).

[8] Section 363L (Obstruction of recipient complying with notice).

[9] This statutory declaration can be completed by the holder of the environmental authority and does not have to be completed by a **suitably qualified person**.

[10] A relevant resource activity environmental authority means an environmental authority for a resource activity relating to a mining lease or a petroleum lease for which the aggregate environmental score stated for the activity in the section under schedule 2 or 2A of the EP Reg applying to the activity is 120 or more.

[11] This statutory declaration can be completed by the holder of the environmental authority and does not have to be completed by a **suitably qualified person.**

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Environmental Management Plan
Bogside Mining Industries Pty Ltd

December 2016

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RTI Act 2009

Document Information Sheet	
TITLE: Environmental Management Plan	
DOCUMENT VERIFICATION	
Document Author:	
Signature:	**Position: Technical Manager**
Name: sch4p4(6) Personal info	**Date:**
Endorsed:	
Signature:	**Position: General Manager**
Name: Mark Dekker	**Date:**

Revision Record

Issue	Date	Reason for Issue	Author
Rev A	18 January 2016	Internal review	sch4p4(6) Personal
Rev 1	19 January 2016	Issued internal	
Rev 2	22 January 2016	Issue to Client	
Rev 3	31 January 2016	Issue to Client	Mark Dekker
Rev 4	29 March 2016	Issue to Client	sch4p4(6) Persona
Rev 5	15 April 2016	Issued to Client	

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1. INTRODUCTION

This Environmental Management Plan (EMP) has been prepared to assist Bogside Mining Industries Pty Ltd (BMI) manage their activities at mining leases ML4581, ML4573 and ML50115. These mining lease (the sites) are owned and operated by BMI Group. BMI Group have identified a number of areas within the sites where resource extraction activities have been completed. The extraction of resources have left voids (referred also as lakes) that require rehabilitation to comply with site licence conditions. The licence conditions of the site provide obligations for Bogside Mining Industries to carry out certain works for the rehabilitation, stability and flood immunity of the site. The conditions most relevant to rehabilitation include:

This EMP provides a description of the activities and management methodology that the BMI will adopt when working at the site.

1.1. LOCATION

The mining leases are all located off Redbank Plains Road, Redbank Plains.

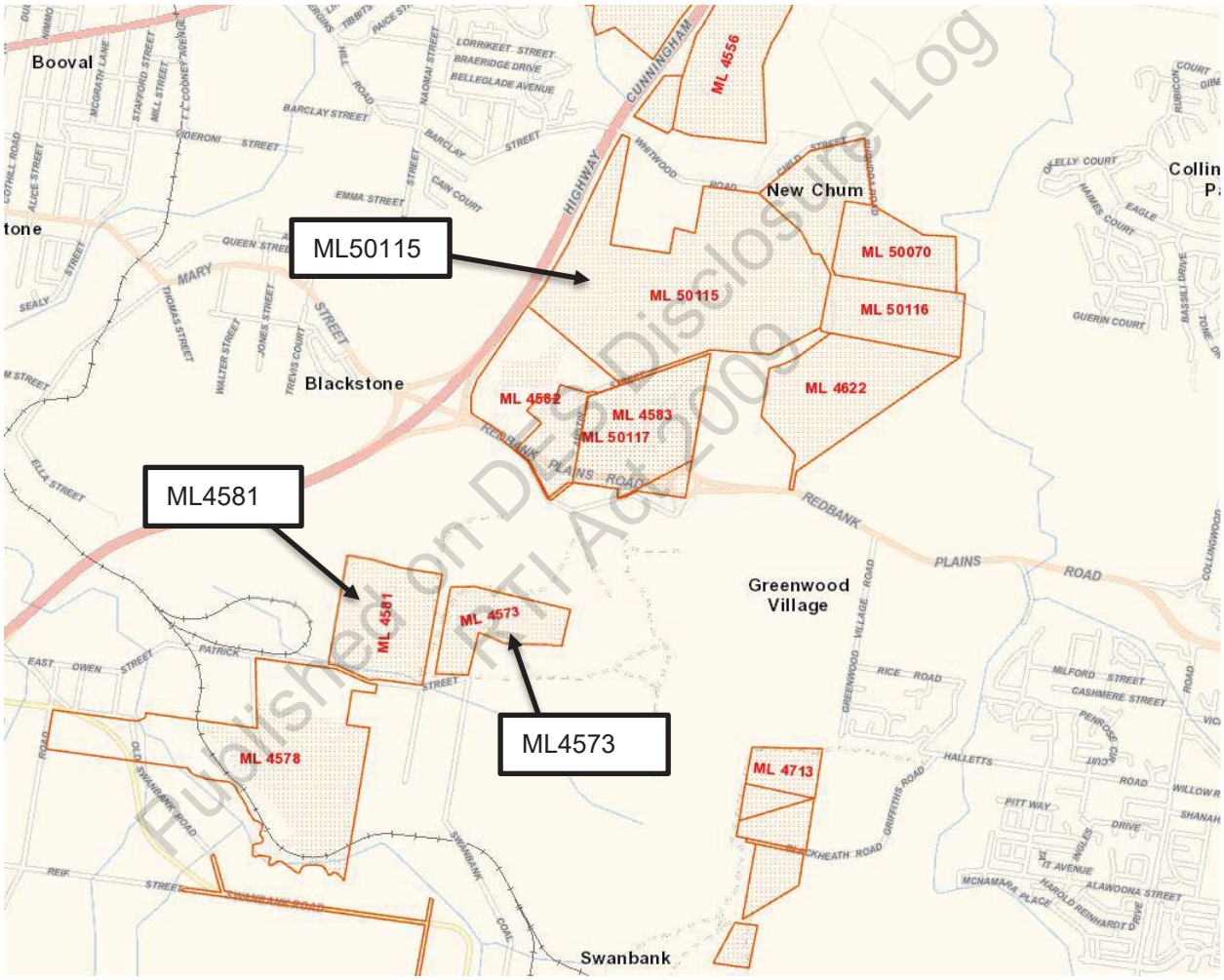

Figure 1 Location of the Bogside Mining Leases

1.2. HOURS OF OPERATION

Bogside's mining leases will adopt the following working hours.

Table 1 Proposed Opening hours

Days	Hours
Monday – Friday	6am – 5pm
Saturday	7am – 12:00pm
Sunday	Closed

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2. LEGISLATIVE REQUIREMENTS

The work being undertaken at the Bogside mining leases are governed by Environmental Authorities. Each of the mining leases has been granted an Environmental Authority (EA) by the Department of Environment and Heritage Protection. The following table shows the EA's for each mining lease.

Mining Lease	EA Permit Number	ERA's
ML4581	EPML00383413	ERA 20(a) – Clay Pit Mining
ML4573	EPML03742216	ERA 13 – Mining Black Coal ERA 16(3b) Screening ERA 33 – Crushing, Milling, Grinding or Screening ERA 62 – Waste Transfer Station
ML50115	EPML02454414	ERA 20(a) – Clay Pit Mining

Key pieces of legislation that are applicable to BMI activities at the site include:

- Mining and Mineing Safety and Health Act 1999
- Mining and Mineing Safety and Health Regulation 2001
- Environmental Protection Act 1994
- Environmental Protection Regulations 2008
- Environmental Protection (Water) Policy 2009.

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3. ROLES AND RESPONSIBILITIES

3.1. ORGANISATIONAL CHART

The organisational structure is provided in Figure 2. The organisational structure is designed to be fluid with the number of staff increased/decreased to meet site demand. Figure 2 shows permanent positions shaded in blue. Additional positions (shaded in red) will be filled subject to demand.

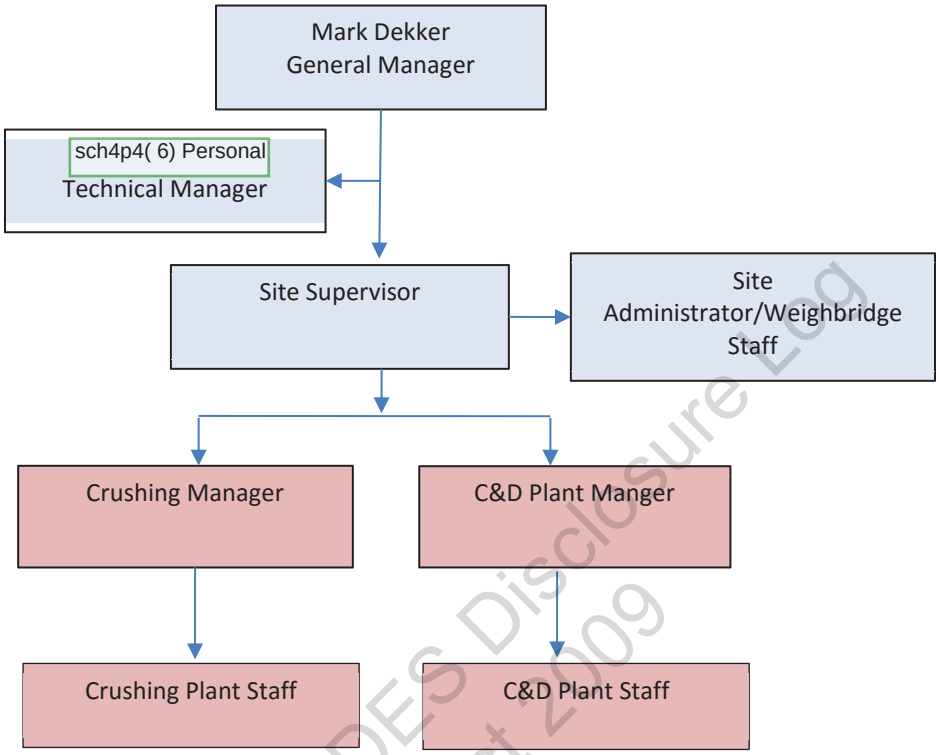

Figure 2 Organisational Structure

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The outline of positions and responsibilities is provided in Table 2.

Table 2 Positions and responsibilities

Positions	Responsibility
General Manager	• Provide resources and guidance to the team to allow the operation to meet environmental compliance
Technical Manager	• Apply technical expertise to manage the output of the operation • Communication with regulatory authorities •
Site Supervisor	• Use resources and leadership to ensure operations meet the stated environmental outcomes • Provide feedback to the technical manager as to the environmental performance of the operation.
Crushing Manager	• With regards to the crushing operations manage/ mitigate the impact of the crushing operations

Operators	• Operate with consideration of environmental requirements and communicate environmental incidents as they occur.

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4. PROJECT DESCRIPTION

The three mining leases are in close proximity to one another as shown on Figure 3. Property descriptions are provided in Table 3. The project team has offices on ML 4573.

Figure 3 ML 4581, ML 4573 and ML 50115

Table 3 Location details of ML 4573, ML 4581 and ML 50115

	Mining Lease (ML)		
	4573	4581	50115
Location	Gypsum Drive (Off Newhill Drive, Redbank Plains	Swanbank Coal Road, Swanbank	Austin Street, Swanbank
Access	Site is accessed via Gypsum Drive, off Newhill Drive.	Site is accessed via ML 4573	Accessed via Austin Street.
Real Property Description	Lot 4 SP221204 Freehold Lot 34 SP257496 Freehold Road Reserve (Swanbank Coal Road)	Road Reserve (Patrick Street and Swanbank Coal Road) Lot 8 RP225546 Freehold Lot 2 RP221204 Freehold Lot 38 SP257496 Freehold	Lot 1 RP180876 Freehold Lot 2 RP147482 Freehold Lot 251 S3185 Freehold Lot 7 RP22539 Freehold Lot 5 RP22539 Freehold Lot 6 RP22539 Freehold Lot 4 RP22539 Freehold.
Site Area (ha)	19.7159	38.8716	107.4
Local Authority	Ipswich City Council	Ipswich City Council	Ipswich City Council
Town Planning Zone	• Regional Business and Industry (Medium Impact Sub Area) • Regional Business and Industry Buffer Area	• Regional Business and • Industry Investigation. • Regional Business and • Industry Buffer Area.	• Regional Business and Industry Investigation. • Regional Business and Industry Buffer Area.

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4.1. Summary Description of Mining Leases

Table 4 provides a summary description of the mining leases.

Table 4 Specifications of ML 4573, ML 4581 and ML 50115

ML	Mineral	Expiry	Lease area (ha)	Surface Area	Landowner
ML 4573	Clay, Shale	31/12/18	19.7159	19.2663	Bogside Mining Industries

ML 4581	Clay – Brick Clay	30/09/2015*	31.8716	30.6562	Bogside Mining Industries
ML 50115	Clay, Shale, Ore, Overburden	30/04/2026	107.4	107.4	Bogside Mining Industries

* renewal requested for an additional 25 years

The Bogside Mining Industries Bogside Mine has been in operation since 1977. The primary mineral targeted by the Mine was sand. In large areas of the site, extraction activities have now ceased, however the site continues to be active with a concrete batching plant and milling and crushing operation.

The sand extraction activities have left a series of lakes. The lakes are required to comply with site license conditions.

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5. SITE ACTIVITIES

The activities that Bogside Mining Industries will undertake at the site will be those required for rehabilitation of the void. The activities will include:

- sourcing of fill material
- processing C&D Material to source suitable rehabilitation materials
- Processing waste rock pile subject to spontaneous combustion heatings
- Managing spontaneous combustion heatings in overburden
- maintaining internal access roads
- administration

5.1. ADMINISTRATION

Due to the small scale of the operation, minimal offices/amenities will be required. The facilities that are required include:

- designated car park area
- designated customer (truck) waiting area
- site office
- administration/lunch room
- portable toilet.

A weighbridge will not be required as trucks will be registered on entry to the site and measurement of loads will be based on total carrying potential of trucks (m^3).

5.2. PLANT AND EQUIPMENT

A numerous plant will be used to manage operational site activities including:

- Dozers
- Front end Loaders
- Bobcat
- Water trucks
- Dump Truck
- Grader
- Roller
- Excavator
- Crushing and screening equipment
- Shredding equipment

If additional equipment is required it will be sourced through the BMI Group.

Plant and equipment will be maintained to minimise the likelihood of environmental harm. Minor servicing of the plant will be undertaken on site. If a major service is required e.g. engine rebuild, then the dozer will be moved offsite to an appropriate workshop facility.

5.3. FUEL STORAGE

Storage of fuel is done within double lined tanks. Oils are kept within tanks inside containers with bunding sufficient to contain 110% of the largest tank size.

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5.4. CLEAN FILL ACCEPTANCE

Primary rehabilitation works are focussed of the receipt of excess fill material from construction projects. This fill is received and then spread with a dozer. The intent is that as fill reaches within 3m of the final fill level further compactive effort will be applied to ensure a bridging layer created a suitably compacted layer which will sustain a post rehabilitation land use.

Clean fill should be soil, rock, sand and allows for incidental inert materials such as masonry and concrete less than 100m in size

5.5. WASTE PROCESSING

Waste targeted for acceptance at the facility will be Construction and Demolition waste
The types of wastes generated from C&D activities include the removal of unsuitable materials from building sites prior to construction as well as waste from the construction process. Materials are likely to include: bricks, concrete; timber; plasterboard; glass; green waste; metal; cardboard; plastic and soil.

Staff operating the weighbridge will direct customers to the appropriate area of the facility to unload waste. All waste receival, sorting and processing will occur. The waste will be sorted mechanically using a range of fixed and mobile equipment. Single material loads, i.e. loads consisting of only one waste type such as concrete, will be received directly into the designated material bays/areas.
Clean fill material which is collected from the recovery process will be transferred to the void for recontouring.

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5.6. STOCKPILING

Processing of waste and natural materials will result in the creation of stock piles. Such stockpiles should be managed. Stockpiles should be managed to mitigate:

- Dust generation
- Traffic management issues
- Vermin
- Litter
- Fire
- Stability Issues

5.7. REHABILITATION

5.8. SPONTANEOUS COMBUSTION

The site spontaneous combustion exists in in a number of forms:

- Seam Fire – the original coal seam in an area of the high wall has ignited and is burning along the incline of the seam itself. This should see itself extinguish due to the ground water level.
- Coal wash /reject coal - high calorific rock and coal washouts has been deposited within the former open cut mine and then allowed to ignite. This area is home to some significantly hot ground

- Carbonaceous rock – A waste rock stockpile of carbonaceous silt stone and mud stone which is interspersed with coal fines. These fines have ignited and large areas record temperatures of 300C°. These areas will be excavated to remove the calorific content and level the pile to post rehabilitation landform.

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6. ENVIRONMENTAL RISK ASSESSMENT

An activity based risk assessment is provided in Appendix A. Bogside Mining Industries Clean Fill Acceptance Criteria is provided in Appendix B. A summary of the environmental risks is presented in Table 5.

Table 5 Summary of Environmental Risk Assessment (sourced from Appendix A)

Aspect	Impact	Controls	Risk Rating
Sourcing of fill material	Fill material is sourced from sites on the EMR/CLR;	Bogside Mining Industries Clean Fill Acceptance Criteria Sales Management Plan Environmental Management Plan	Medium
Sourcing of Fill Material	PASS is not managed appropriately leading to changes in water quality	Trained Staff PASS management plan	Low
Contaminated fill material with mixed construction waste	Fill material contains mixed loads (including construction and demolition waste/green waste) potentially leading to changes in water quality within the void	Clean fill acceptance criteria Fill Acceptance Management Plan Trained staff Rejection based on inspection of every load Testing of fill prior to pushing into void Water Quality Monitoring	Low
Natural elevated levels of metals in imported fill	Clean fill material has natural background metals which may leach into the water in the void changing the water quality in the void	Testing of fill prior to pushing into void and comparison against Bogside Mining Industries Clean Fill Acceptance Criteria Trained staff Inspection of every load Mixing of soils in designated Areas Water Quality Monitoring	Low
Plant/Equipment/Vehicles	Plant/vehicle breakdown on site, leaking fuel/hydraulic oil etc	Spill response kits Serviced plant and equipment Trained plant operators and staff	Low
Dust emissions	Trucks tipping material causing dust emissions that affect surrounding environment	Visual observations Change of activities Stop work if required	Low

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Contaminated Soil	BMI testing identifies that contaminated soil has been brought onto site	BMI to remove and validate the area in accordance with EP Act and EHP requirements	Low
Contaminated Water	BMI testing identifies the surface water exceeds set conditions	Environmental Management Plan	Low
Fire	Fire in plant or stockpile	Environmental Management Plan	low

A summary of management plans provided in this environmental management document includes:

- Sales Management Plan
- Water Quality Sampling Plan
- Water Quality Management Plan
- Designated Tipping Area Management Plan
- Traffic Management Plan
- Potential Acid Sulfate Soil Management Plan
- Dust Management Plan
- Mobile Plant Refueling Management Plan

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7. ENVIRONMENTAL MANAGEMENT PLANS

7.1. SALES MANAGEMENT PLAN

Purpose

The purpose of this sales procedure is to provide direction to BMI Sales personnel when sourcing customers for the Bogside Mine

Performance Outcomes

- No clean fill is sourced from sites that are either on the EMR/CLR or have had historic industrial uses that have high probability of soil contamination.
- 100% compliance that fill material meets the fill acceptance criteria.
  No mixed loads (loads containing other water streams e.g. green waste).

Task	Requirement	Responsibility	Timing
General Requirements			
1.	The BMI Sales team is responsible for sourcing clean fill in accordance with the clean fill acceptance criteria	BMI Sales Team	Sourcing Fill
2.	In industrial/built up areas be aware that sites could be on the Environmental Management Register (EMR) and Contaminated Land Register (CLR)	Site Administrator	Prior to acceptance of Fill
Records			
Corrective Actions			
3.	If material in trucks does not meet clean fill criteria they will be turned away by the site administrator. The site administrator will inform the BMI Sales team of the incident. Records of corrective action will be presented	Site Administrator/ Site Supervisor	Prior to fill material being pushed into the lake.

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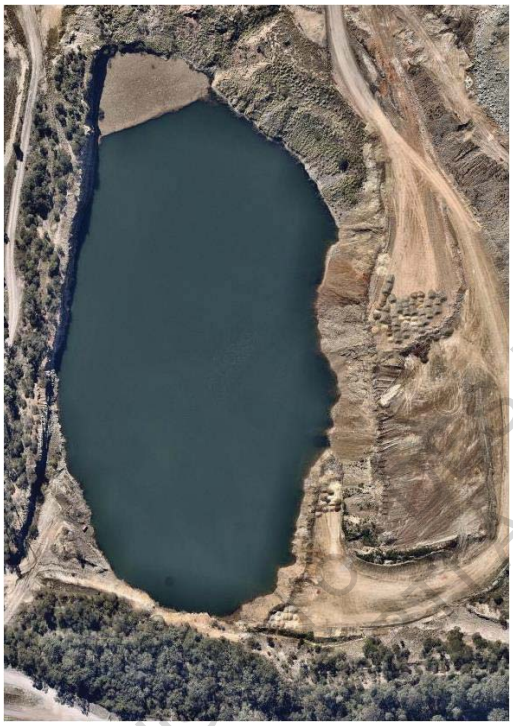
7.2. WATER QUALITY SAMPLING PLAN

Purpose

The purpose of the Water Quality Sampling Program (WQSP) is to monitor the water quality within the void being rehabilitated.

Performance Outcomes

- Water quality does not change more than 10% of background
- pH is between 6.5 and 8.5

Task	Requirement	Responsibility	Frequency
Surface Water Sampling Sites			
1.	Water Quality Sampling Sites are located in proximity no greater than 25 meters to areas being rehabilitated as shown below. 	Site Supervisor	NA
Frequency			
2.	Surface water sampling frequency will be in accordance with the following: Frequency / Type of Monitoring / Analytes Monthly / In-situ / pH, Turbidity, DO, EC, Temp, Redox 6 Monthly / Laboratory / pH, DO, EC, Temp, Redox; 8 Metals: As, Cd, Cr, Cu, Ni, Pb, Zn, Hg; TPH/TRH (C6-C36 or 40); BTEX, VOC.	Technical Manager	As per table

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Procedure			
3	Water Quality Monitoring will be conducted in accordance with the Monitoring and Sampling Manual 2009: Environmental Protection (Water) Policy 2009.	Technical Manager	As per table
4	Samples are to be stored and sent to ALS in accordance with Sampling Manual 2009 requirements.	Site Supervisor	Weekly/ Monthly
Water Quality Records			
5	Water quality results must be emailed to the Technical Manager. The technical Manager will collate and analyse results.	Technical Manager	Weekly/ Monthly
Reporting			
6	Water Quality Monitoring results will be provided to Bogside Mining Industries in the monthly reports (within the first week of each month).	Site supervisor / Technical Manager	Monthly
Audits This WQMP will be audited by both BMI and Bogside Mining Industries every 12 months.			
Non Conformance and Corrective Action Refer to the Water Quality Management Plan			

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7.3. WATER QUALITY MANAGEMENT PLAN

Purpose

The purpose of the Water Quality Management Plan (WQMP) is to manage an incident resultant from the BMI rehabilitation operations by which the water quality within the void being rehabilitated falls outside the release limits

Performance Outcomes

- Turbidity is less than 10% above the receiving environment. (Bogside Mining Industries to provide BMI with testing data for MP1-3 for reference)
- pH is between 6.5 and 8.5
- EC is measured only and not a performance measure
- Whilst sampling for 8 Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg) TPH/TRH (C6-C36 or 40) as well as BTEX, VOC. is undertaken no discharge limits as specified in the EA EPPR00338813 and/or ANZECC 2000 Marine Water and NEPM 2013 GILS

Task	Requirement	Responsibility	Frequency
Surface Water Sampling Sites			
1.	Water Quality Sampling point will be within the "void". This location is considered to be a reasonable measure of compliance with the release criteria as it allows actions to be taken before the virtual release of water through the permeable barrier to the Bundamba Creek and shields the direct operation of placing fill into a water void which will impact water quality (turbidity) within the "void".	Technical Manager	Monthly
Frequency			
2.	Review of surface water sampling results will be in line with the sampling frequencies. Should a non-conformance be detected the appropriate action plan will be developed prior to proceeding with action to rectify non-conformance.	Technical Manager	As per table
Procedure			
3	Turbidity – The increase of turbidity within the "void" may impact the water to pass into the Bundamba Creek. Should the results reach the 10% above receiving environment trigger. Reducing the Turbidity with the void can be undertaken: • through the use of commercially available flocculants • through the establishment of a sediment curtain separating the fill area from the pump pick up point. When turbidity is reduced in the void the equalization pumping can resume.	Technical Manager	As Required
4	pH – Given the existing conditions of the ponds pH is unlikely to be impacted by fill placed within the void however the immediate cessation of equalisation pumping followed by the addition of either acids or bases to correct the pH may be required. Given the high existing level of pH confirmation that filling actions undertaken by BMI have resulted in pH non-conformance is required before BMI will take action to rectify such issues.	Technical Manager	As Required
5	Other contaminants – as mentioned above no specific water quality limits apply to waters released as stated in the environmental authority given the large range of potential contaminants and the equally treatment procedures across this range of contaminants specific action will be detailed on the reporting of a non-		As Required

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	conformance with equalisation pumping to cease until approved treatment plan has been accepted.		
Reporting			
6	Water Quality Management Action methodologies and results will be reviewed by Bogside Mining Industries within 3 working days of receipt of results.	Technical Manager	6 monthly
Audits This WQMP will be audited by Bogside Mining Industries every 12 months.			
Non Conformance and Corrective Action If monthly monitoring results are exceeding the performance criteria, the Site Manager must contact the Technical Manager. The BMI Technical Manager will identify corrective actions required			

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7.4. Designated Tipping Area Management Plan

Purpose

To provide the methodology for storing and testing of clean fill prior to the fill being pushed into the void.

Performance Outcomes

- 100% of imported material inspected against the clean fill criteria.
- Records kept for all material imported into the site.

Task	Requirement	Responsibility	Timing
Acceptance of clean fill			
1	All fill brought onto site will be inspected and approved in accordance with this plan. The only exception will be if material has been tested at site and evidence of test certificates is provided to Bogside Mining Industries (including PASS).	Site Supervisor	Daily
2	Three areas will be prepared to receive clean fill: will be graded to ensure ground is suitable for trucks tipping material.	Site Supervisor	Ongoing
3.	When customers arrive at the site office, they will be advised as to which Area they need to go to. The final destination of fill for each truck will be recorded in Mandalay.	Site Supervisor	Ongoing
4.	During tipping, the site operator will inspect fill material against the clean fill acceptance criteria. Any material identified as not suitable will be immediately loaded back in the truck and removed from site or tipped in the suited location.	Site Supervisor	Daily

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7.5. TRAFFIC MANAGEMENT PLAN

Purpose

The purpose of the Traffic Management Plan (TMP) is to provide both Bogside Mining Industries , Bogside Mining Industries and customers (truck drivers) the requirements for accessing and safely driving around the site.

Performance Measure

- Zero vehicle interactions with other vehicles
  100% of vehicles complying with site rules

Task	Requirement	Responsibility	Timing
Site Entrance			
1	Bogside Mining Industries have established a site office within the mine as shown on Figure 4. The site office will be the main point of contact for all visitors and customers accessing the rehabilitation area. Trucks will stop at the site office, prior to tipping loads at one of the designated tipping areas (Figure 4. **Figure 4 Location of Bogside Mining Industries Site Office at Bogside Mining Industries Bogside mine**	Technical Manager	Start of contract
Traffic Route			
4	A one-way system of traffic has been prepared for all Bogside Mining Industries customers as provided in Appendix D.	Customers	Daily
Traffic Rules			
5	• Speed Limit is 40km/hr. • All road signs on site must be adhered to. • No talking on mobile phones whilst driving a vehicle or mobile plant. • PPE must be worn. PPE includes long sleeve/long pants, hi-vis vest, helmet and safety glasses. Gloves must be worn if undertaking manual handling tasks. Other PPE may be required subject to the nature of the task. • 2-way radio must be on Channel 16 when entering the Bogside Mining Industries Bogside Mine.	Technical Manager	Start of contract

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	• Bogside Mining Industries implement positive communication. Positive communication must be made when driving to and from different work zones.		
Visitors/Customers			
6.	**Visitors** All visitors must report directly to the Bogside Mining Industries Bogside Mine site office and sign in prior to proceeding further. Parking if provided in the Bogside Mining Industries Bogside Site office car park. The only exception will be Bogside Mining Industries Customers (Trucks) that may proceed in accordance with this TMP. No visitors are to drive beyond the Bogside Mining Industries Bogside Site Office, unless they have completed the Bogside Mining Industries Bogside Induction. **Light Vehicles** Drivers of light vehicles must have a vehicle license and obey all road rules when on site. Light vehicles must give way to heavy vehicles at all times. Light vehicles must, as a minimum, have flashing hazard lights, flags (mine specification) and 2-way radios. The vehicles must be fit for use (road worthy). A light vehicle car park is provided at both the Bogside Mining Industries Bogside Mine Office and the Bogside Mining Industries Site Office. Light vehicles must reverse park. **Truck Access (Customers)** Trucks must follow the one-way traffic plan as provided in Appendix D. Upon entering the site, trucks must make contact with the Bogside Mining Industries Bogside Mine Weighbridge supervisor and advise they are travelling to the Bogside Mining Industries Site Office (**Error! Reference source not found.**). A t Point Y (**Error! Reference source not found.**) trucks must stop, change to channel 11 and advise Bogside Mining Industries Site Administrator that they wish to proceed to the site office. Following positive communication, trucks may proceed to the site office. Truck drivers must comply with the Bogside Mining Industries Bogside Site Rules or they will be asked to leave site. **Mobile Plant** Mobile plant must be suitable for operations on a mining site. As a minimum they must be fit for purpose (regularly serviced), and be mine specification which includes isolation switches and fire extinguishers. All mobile plant operators will have completed the BMI Group competency for the specific mobile plant being operated e.g. Dozer. Bogside Mining Industries Bogside Mine may, at their discretion, complete a verification of competency to confirm that the operator is competent. All Bogside Mining Industries Mobile Plant must be parked over night at the Site Compound. Plant must be locked and secure.	Visitors/ Customers	Ongoing

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Road Maintenance			
7.	Roads from the Site Office through to site entrance will be maintained by Bogside.	Site Supervisor	Ongoing
8.	Maintenance activities may include filling pot holes and grading	Site Supervisor	Ongoing
Monitoring			
9.	Road Inspections will be undertaken once per month, or after rain events.	Site supervisor	1 per month/after rain events
10.	Evidence of road maintenance inspections will be provided to Bogside Mining Industries in the monthly report (refer to Appendix E).	Site Supervisor	Ongoing
Audits			
Bogside Mining Industries will conduct 6 monthly audits against this TMP.			
Non Conformance and Corrective Action			
Truck drivers not complying with this management plan will be provided with written warnings. After three written warnings they will not be permitted back to the site. If the performance indicators are not met, Bogside Mining Industries will consider amending this Traffic Management Plan.			

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7.6. ACID SULFATE SOILS MANAGEMENT PLAN

Purpose

The Bogside Mining Industries provides optimal conditions for strategic reburial of PASS and treated ASS. The void, ranges from approximately 6m to 40m deep, is filled with water that has very little mixing or surface flows, providing minimal opportunity for oxidation of PASS to occur. Depth would be confirmed prior to any placement of PASS.

The Acid Sulfate Soils Management Plans has been documented in accordance with the Queensland Acid Sulfate Soil Technical Manual Management Guidelines v4.0.

Performance Measures

- No PASS/ASS disposed of without prior testing results
- pH of water is stable between 6.5 and 8.5

Task	Requirement	Responsibility	TIming
Prior to accepting PASS/AASS			
1	Testing of PASS must be undertaken at source to ensure zero or minimal acidity during transportation and reburial activities.	Customer	Prior to transporting to site
2	Test results are to be provided to Site Supervisor	Customer	Prior to transporting to site
3	The customer will be required to provide a PASS management plan, and ensure that no oxidation of PASS can occur during excavation and transportation	Customer	Prior to transporting to site
4	Location of source, truck registration and volume of PASS (m3) and disposal location will be recorded (Mandalay)	Site Supervisor	Upon arrival at site
5	The volume of water in the void must be managed to ensure that water levels are at least 2m above the PASS at all time.	Site Supervisor	Ongoing
6.	Soils that are contaminated (organic or inorganic) will not be accepted for disposal with PASS	Site Supervisor	Ongoing
7.	PASS shall be disposed of into the void, minimising exposure to oxidating processes e.g. sunlight.	Site Supervisor	Ongoing
8.	Approximately 1kg of hydrated lime should be added to the surrounding waters for each truck of PASS tipped into the void or until pH is stable (between 6.5 and 8.5).	Site Supervisor	Ongoing
9.	Standing water quality will be monitored regularly. If monitoring identifies that pH is noticeably decreasing, then treatment of the water body with lime will be considered.	Site Supervisor	Ongoing
10.	A segregated disposal area will be developed to facilitate efficient tipping of PASS into the void.	Site Supervisor	Ongoing
11.	Once the level of PASS approaches levels where it cannot be covered with 2m of water, a capping layer of clean fill will be placed on top of the PASS, precluding the risk of oxygen ingress.	Site Supervisor	Ongoing
Actual Acid Sulfate Management Plan			

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12.	An ASS treatment area will be developed in accordance with the Queensland Acid Sulfate Soil Technical Manual Soil Management Guidelines v4.0	Site Supervisor	Prior to ASSS being brought to site
13.	Where testing of Step 1 identifies AASS the customer must provide BMI with a copy of their Acid Sulfate Management Plan. The plan must include test certificates and treatment process.	Customer	Prior to material being accepted at the site
13.	If treatment is unable to be achieved at the point source, the customers acid sulfate soil management plan must include transportation and treatment processes that will be adopted by BMI.	Customer/Site Supervisor	Prior to material being accepted at the site
14.	Following treatment, the material will then be disposed into the void, underwater. This will prevent the risk of further oxidation occurring.	Site Supervisor	Immediately post treatment
Reporting			
15	Number of vehicles and volumes of PASS received will be recorded in monthly report		

Audits

This PASS management plan will be reviewed every 6 months or after non-conformance have been identified.

Non-conformance and corrective actions

In the event that PASS is not managed in accordance with this management plan, further training will be provided to the Site Supervisor.

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7.7. Dust Management Plan

Purpose

The purpose of this Dust Management Plan is to ensure that appropriate management of dust from Bgoside Mining Industries activities at ML4581, ML4573 and ML50115 is provided.

Performance Measures

No complaints from Ipswich City Council, other contractors working on site or external stakeholders e.g. residents regarding dust emissions from site.

No sediment on Newhill Drive or Redbank Plains Road directly attributable to Bogside Mining Industries activities.

General Management Activities

Task	Requirement	Responsibility	Timing
1	Dust from Bogside Mining Industries activities can be in the form of airborne dust (during dry conditions) or sediment tracked onto the road from vehicles accessing the site during wet conditions	Site Supervisor	Ongoing
2	Visual monitoring of dust will be the primary mitigation measure. The site Supervisor will be responsible for observing dusty during activities.	Site Supervisor	Ongoing
3	Physical dust monitoring must focus on the concentration of PM_{10} and $PM_{2.5}$ with the following constraints: • Dust Deposition Rate Limit – 120 mg/m^2/day • PM_{10} Concentration Limit – 50 µg/m^3 averaged over 24 hours • $PM_{2.5}$ Concentration Limit – 25 µg/m^3 averaged over 24 hours	Site Supervisor	Ongoing
4	Dust control measures must include: • Water spraying devices • Wind-breaks and shields • Wetting down loads leaving site Covering exiting loads and stockpiles	Site Supervisor	Ongoing
5	In the event that dust plumes are visible as a direct result of activities, the Site Supervisor will be required to take action. Action may include: • Changing location of active work site • Hiring of a water truck • Closing the site during periods of very windy conditions.	Site Supervisor	Ongoing
6	During wet conditions there is a risk that sediment will be tracked from the site onto the public road network. All roads will be sealed with an aggregate e.g. 5 mm rock. The exit will be regularly monitored.	Site Supervisor	Ongoing
7	In the event that sediment is being tracked onto the road, a street sweeper will be sourced by the site administrator.	Site Supervisor	Ongoing

Audits

This dust management plan will be reviewed every 6 months

Non conformance/corrective actions

If dust (airborne plumes or sediment) is observed leaving the site, then alternative mitigation options must be considered.

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7.8. MOBILE PLANT REFUELLING MANAGEMENT PLAN

Purpose

The purpose of this Mobile Plant Refuelling Management Plan is to provide guidance when refuelling on site.

Performance Measures

100% compliance with this management plan

Task	Requirement	Responsibility	TIming
General			
1	No refuelling within 40m of the water course.	Site Supervisor	Ongoing
5	Spill kits will be kept on site at the storage container.	Site Supervisor	Ongoing
6	All staff shall be trained in the use of spill kits.	Technical Manager	Ongoing
Audits			
This Plant refuelling Management Plan will be reviewed every 12 months			
Non-conformance/corrective actions			
In the event of a spill or incorrect storage of hydrocarbons, the Site Supervisor will rectify immediately and Bogside Mining Industries Bogside SSE informed within 24hrs.			

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8. INSPECTIONS AND INCIDENT REPORTING

8.1. DAILY INSPECTIONS

The Site Supervisor will conduct daily visual inspections of the Project site.

8.2. INCIDENT REPORTING AND INVESTIGATION

Environmental incidents and Safety incidents will be reported to Bogside Mining Industries as per the Bogside Mining Industries incident reporting procedures. The Bogside Mining Industries health, safety and environmental escalation management matrix is found in Appendix F. A copy of the escalation matrix will be posted on the notice board of the Bogside Mining Industries Site Office.

It is the responsibility of all staff to report incidents and near misses.

8.3. AUDITS

Compliance audits will be conducted against this environmental management plan in accordance to timeframes in the sub plans.

8.4. NON CONFORMANCES

Any non-conformances will be reported to BMI Site Manager. Corrective actions will be identified and communicated to all personnel at the site (refer to Appendix G).

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9. COMMUNICATION

9.1. INTERNAL COMMUNICATION

Bogside Rehabilitation

Internal communication of environmental performance and incident related issues will be achieved through internal meetings. Regular meetings (Bogside Mining Industries project team) will be held as required. This may be twice a week.

Bogside Mining Industries Bogside Mine

Daily Bogside Mining Industries Bogside Tool Box talks will be attended by the Site Supervisor.

9.2. EXTERNAL COMMUNICATION

Bogside Mining Industries will communicate incident (both environment and safety) directly to Bogside Mining Industries . No external reporting e.g. reporting to the Department of Environment and Heritage Project, will be undertaken unless directly requested by Bogside Mining Industries Bogside Mine.

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10. EMERGENCY RESPONSE

Bogside Mining Industries will work within BMI emergency response procedures. A copy of the emergency response procedures will be placed in the site office and they will form a key element of site inductions.

Following an emergency, Bogside Mining Industries staff will immediately proceed to the BMI Site Office (if it is safe to do). The Site Supervisor will account for all staff (using the visitor sign in book) and immediately implement the Bogside Mining Industries Bogside emergency response procedures.

Emergency response contact names (Bogside Mining Industries and Bogside Rehabilitation) will be placed on the notice board in the site office.

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Appendix A

Risk Assessment

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Appendix B
Bogside Mining Industries Clean Fill Acceptance Criteria

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Clean Fill Acceptance Criteria

Fill Material	Description
Virgin Excavated Natural Material (VENM).	This includes natural material (such as: clay, gravel, sand, soil or rock fines): • that has been excavated or quarried from areas that are not contaminated with manufactured chemicals or process residues as a result of industrial, commercial, mining or agricultural activities, and • that does not contain any sulfidic ores or soils or any other waste.
Excavated Natural Material (ENM)	Material that is excavated from the ground from land that does not meet the definition of VENM due to the fact that it is VENM that has previously been stockpiled or used as preload. This ENM material will be subject to testing (against the criteria in table 1 appendix B) at a rate double the VENM rate.
Potential Acid Sulfate Soils (PASS)	Acid Sulfate Soils are often encountered in low lying coastal areas when excavating below 5m AHD. In accordance with State Planning Policy 2/02 Guideline: Acid Sulfate Soils Version 2 (2002) and the Queensland Acid Sulfate Soil Technical Manual Soil Management Guidelines v4.0 (2014), Potential Acid Sulphate Soils (PASS) maybe suitable for strategic reburial (under water). PASS will be accepted at the site only if customers can present a third party Acid Sulphate Soils Management Plan.
Any fill material from Environmental Management Register, or Contaminated Land Register sites	This fill material will not be accepted and will not enter the site.

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Appendix C Water Quality Monitoring

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Water Quality Reporting Results Record

Water Quality Monitoring

Bogside Mining Industries

Date	Time	Weather Conditions	Water Observations	pH	Turbidity	DO	EC	Temp	Redox	As	Cr	Cu	Ni	Pb	Xn	Hg	TPH/ TRH	BTEX	VOC

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Water Quality Reporting Form

Date of sampling	
Date results received	
Date of this report	
Were any non-compliant results identified	**No/Yes**
If yes, provide a discussion below.	

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Appendix D Traffic Management Plan

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Appendix E
Haul Road Inspection Form

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Haul Road Inspection Template: note this template will be used on the BMI iAuditor system.

Haul Road Inspection Template			
Date of Inspection:			
Personnel conducting inspection:			
This inspection requires the BMI Bogside Haul Road (as provided in the Traffic Management Plan) to be driven and observations made.			
Observations	**Comments**		
Weather conditions during inspection			
Is rain forecast in the next week? If yes, the road must be inspected after a rain event of greater than 10mm.			
Is the surface of the road suitable for all weather access?			
Are there areas of the road that require resurfacing			
Are there potholes in the road that require maintenance work			
Is the road safe for use			
Are there any environmental hazards observed e.g. oil spills on the road?			
Corrective Actions:			
Corrective Action		**Responsibility**	**Completion Date**

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Appendix F

Bogside Mining Industries Health, Safety and Environmental Escalation Management Matrix

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Appendix G
Non Conformance and Corrective Action

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Non Conformance Report

Date	
Site	
Location	
Site Manager	
Non Conformance Reported by	
Position	

Type of Non Conformance

Contract procedure BMI Procedure Legal Incident Near Miss

Other (describe)

Description of Non Conformance (s)

Corrective Actions

Signed by Person Reporting Non Conformance	
Signed by Site Manager	

Comments

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Appendix H
Monthly Report Template

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Bogside Mining Industries Monthly Report

(Note: format of report may change in consultation with Bogside Mining Industries).

Reporting Period			
Completed by			
Position			
Number or Trucks entering site for this reporting period			
Volume (m3) of material imported to site in this reporting period			
Number of trucks that tipped at each tipping Area		**Area A** **Area B** **Area C**	
The number of samples and correlated test results for stockpiles in each area See attached stockpile management register			
Soil Results See attached soil monitoring results			
Water Quality See attached water quality monitoring results			
Traffic Management See attached traffic management report			
Improvements Identified			

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Non-conformances and Corrective Actions Refer to corrective Action Forms attached.
Ortho Grid Reference (Active rehabilitation areas referenced against Bogside Mining Industries s Ortho Grid Reference)

Date Report Completed	
Name	
Signature	

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Appendix H
Emergency and Evacuation Plan

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Appendix I
Soil Sampling Methodology

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Soil Sampling Methodology

1. Sample methodology will utilise composite sampling methodology.
    a. 5 – 10 sub samples will be taken from the stockpile (depending on the composition of material in the stockpile)
    b. each sub sample will be taken from different depths of the stockpile to ensure a good representation of the material
    c. All subsamples should be of equal volume
    d. large stones are to be removed
    e. Samples will be thoroughly mixed together
    f. The mixed sample will be used to fill the sample jar.
2. Sample location and stockpile reference number will be documented on the chain of custody (chain of custody supplied by ALS).
3. The Stockpile Register will record the date of sampling and also if the results indicate that the material is considered to be clean fill.
4. Samples will be sent to ALS on the day of sampling.
5. Soil sampling results will be checked against the Bogside Mining Industries compliance requirements
6. Any non-compliances identified through review of the results will be raised with BMI for discussion note prior to soil being used for rehabilitation purposes.

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