



APPIN MINE WASTE MANAGEMENT PLAN

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13. APPENDICES.....20

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DOCUMENT REVISION LOG

Persons authorising this Plan

Name	Title	Date
Chris Schultz	Lead Environment	November 2020

Document Revisions

Revision	Description of Changes	Date
ICH Document – ICHMP0234		
1.0	Original Document	August 2012
2.0	Update following Triennial Independent Audit	October 2014
3.0	Minor changes including: <ul style="list-style-type: none"> • Change from BHP Billiton to South32 • Reference to 2017 Audit • Roles and responsibilities • Inclusion of reporting requirements for the Underground Coal wash trial • Disposal route changed for sewage and bathhouse disposal at Appin East 	25 May 2017
Conversion to APN Document – APNMP0110		
1.0	Review of content and format.	November 2020

Persons involved in the review of this Plan

Name	Title	Company	Exp (yrs)	Date
Chris Schultz	Lead Environment	South32 IMC	24	Nov 2020
Simon Pigozzo	Specialist Environment	South32 IMC	9	Nov 2020
David Gregory	Specialist Environment	South32 IMC	12	Nov 2020

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1. INTRODUCTION

Appin Mine incorporates the underground mining operations, which extract coal from the Bulli Seam, and associated surface activities, including the West Cliff Coal Preparation Plant (WCCPP) and Coal Wash Emplacement Area (CWEA). Appin Mine is located approximately 25 kilometres (km) north-west of Wollongong in New South Wales (see Plan 1). Appin Mine is owned and operated by Endeavour Coal Pty Ltd, a subsidiary of Illawarra Coal Holdings Pty Ltd (ICHPL), which is a wholly owned subsidiary of South32 Limited. Appin Mine, Cordeaux Colliery and Dendrobium Mine (and associated facilities) collectively operate as South32 Illawarra Metallurgical Coal (IMC).

ICHPL received Project Approval 08_0150 (the Project Approval)¹ from the Planning Assessment Commission of NSW under delegation of the Minister for Planning and Infrastructure on 22 December 2011 for current and proposed mining of the Bulli Seam Operations (BSO) for the next 30 years, and production of up to 10.5 million tonnes per annum of run of mine (ROM) coal. This approval incorporates underground mining, transport and coal wash emplacement activities undertaken 24 hours a day, seven days per week.

This Waste Management Plan (WMP) has been prepared to detail the waste management strategies and measures for Appin Mine. This plan has been prepared to satisfy Condition 29 of Schedule 4 of the Project Approval for the Waste Management Plan.

1.1 Plan Objectives

The objectives of this WMP are to:

- provide the framework for the responsible management of waste products associated with Appin Mine;
- describe the measures to minimise the waste (including coal wash) generated by or received by Appin Mine;
- comply with legal and other requirements associated with the management and disposal of waste; and
- comply with South32 and other relevant standards and requirements.

1.2 Scope

The scope of the WMP applies to all existing and future activities related to Appin Mine regarding waste at:

- Appin East, Appin West and Appin North Pit Top areas;
- Appin No. 1, No. 2, No. 3 and No. 6 Ventilation Shaft (existing) and future shaft sites and associated facilities;
- WCCPP; and
- CWEA.

¹ As modified by MOD 1 (April 2015) and MOD 2 (October 2016)

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Refer to Plan 1 for locations of the above.

1.3 Environmental Management System

IMC has a comprehensive Environmental Management System (EMS) in place to minimise the impact of its operations on the local environment and community. The WMP is a component of the EMS which is certified to ISO 14001.

1.4 Consultation

No consultation is required to be undertaken as part of the review of the WMP. Comments from any relevant regulatory agencies will be incorporated into the WMP as required.

2. ROLES AND RESPONSIBILITIES

Roles and responsibilities associated with environmental management at Appin Mine are defined in the Environmental Management Strategy. Table 1 outlines the roles and responsibilities associated with the implementation and periodic review of the WMP.

Table 1: Roles and Responsibilities

Role	Responsibilities
Lead Environment	Implement and periodically review the WMP. Liaise with government regulators and IMC senior leadership team in relation to waste related issues, including reporting.
Specialist Environment	Advise, coach and mentor IMC operations with respect to meeting the standards and requirements of the WMP. Monitor and review compliance against these requirements. Inspect waste management facilities on a regular basis.
Manager Health, Safety and Environment Manager Projects General Manager Appin Mine	Provide the necessary resources and systems to ensure that requirements of the WMP are met.
Contract Service Provider Managers and supervisors Operations Personnel	Comply with South32 project delivery and operational requirements.
All personnel	Manage waste in a responsible manner.
Contract Service Provider	Transport and disposal of waste in accordance with legal requirements.

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3. LEGISLATION AND PLANNING

3.1 Project Approval Conditions and Statement of Commitments

Potential waste management impacts associated with Appin Mine were evaluated during the preparation of the BSO Project Environmental Assessment (EA) 2009. The EA was assessed and approved under the *Environmental Planning and Assessment Act 1979* (EP&A Act) and associated Regulations.

All activities carried out at Appin Mine will be generally in accordance with the Project Approval and with the EA.

Appendix 1 outlines the waste management requirements of the Project Approval and cross references where the requirements have been addressed within the WMP.

3.2 Environment Protection Licence Requirements

Environment Protection Licence No. 2504 (EPL 2504) applies to Appin Mine and associated activities. A copy of the licence can be accessed at the Environment Protection Authority (EPA) website:

<http://www.epa.nsw.gov.au/prpoeoapp/>.

Condition L4.1 of EPL 2504 states:

The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the Table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	Coal Washery Reject	-	-	NA
NA	General or Specific exempted waste	-	-	NA
NA	Drilling mud and/or muddy waters from drilling operations	-	-	NA

Emplacement of coal wash is managed in accordance with the approved Coal Wash Emplacement Area Management Plan (CWEAMP).

EPL 2504 allows treated effluent application to land via spray irrigation to dedicated areas on-site at Appin West and Appin North.

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3.3 Relevant Legislation

Key regulatory and WMP obligations applicable to Appin Mine are managed via an obligations management database. The obligations are allocated to responsible personnel. This process is detailed in the Environmental Compliance/Conformance Assessment and Reporting Procedure.

Legislation applicable to waste management includes but is not limited to:

- *Protection of the Environment Operations Act 1997 (POEO Act)*;
- *Protection of the Environment Operations (Waste) Regulation 2014*;
- *Waste Avoidance and Resource Recovery Act 2001*; and
- *National Environment Protection (Movement of Controlled Waste between States and Territories) Measure 1998*.

See <https://www.epa.nsw.gov.au/your-environment/waste/waste-overview/waste-regulations> for more details.

3.4 Guidelines and Standards

This WMP has been developed to be consistent with the principles of the following:

- ISO 14001:2015 Environmental Management Systems;
- South32 Sustainability Policy; and
- South32 Environment Standard.

Other relevant guidelines for waste management include:

- EPA 'Waste Management Guidelines' and relevant 'Fact Sheets'.
- See <https://www.epa.nsw.gov.au/your-environment/waste/waste-overview> for more details of waste disposal, avoidance, resource recovery, classification and transportation.

4. ENVIRONMENTAL ASSESSMENT

Waste management was included in the EA for the BSO Project. The EA is available via the South32 regulatory website link below.

<https://www.south32.net/our-business/australia/illawarra-metallurgical-coal/documents>.

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5. WASTE MANAGEMENT

5.1 Waste Hierarchy

The waste hierarchy is a set of priorities for the efficient use of resources that underpins the objectives of the *Waste Avoidance and Resource Recovery Act 2001*.

The waste hierarchy is:

- avoidance including action to reduce the amount of waste generated by households, industry and all levels of government;
- resource recovery including re-use, recycling, reprocessing and energy recovery, consistent with the most efficient use of the recovered resources; and
- disposal including management of all disposal options in the most environmentally responsible manner.

The waste hierarchy is illustrated in Figure 1².

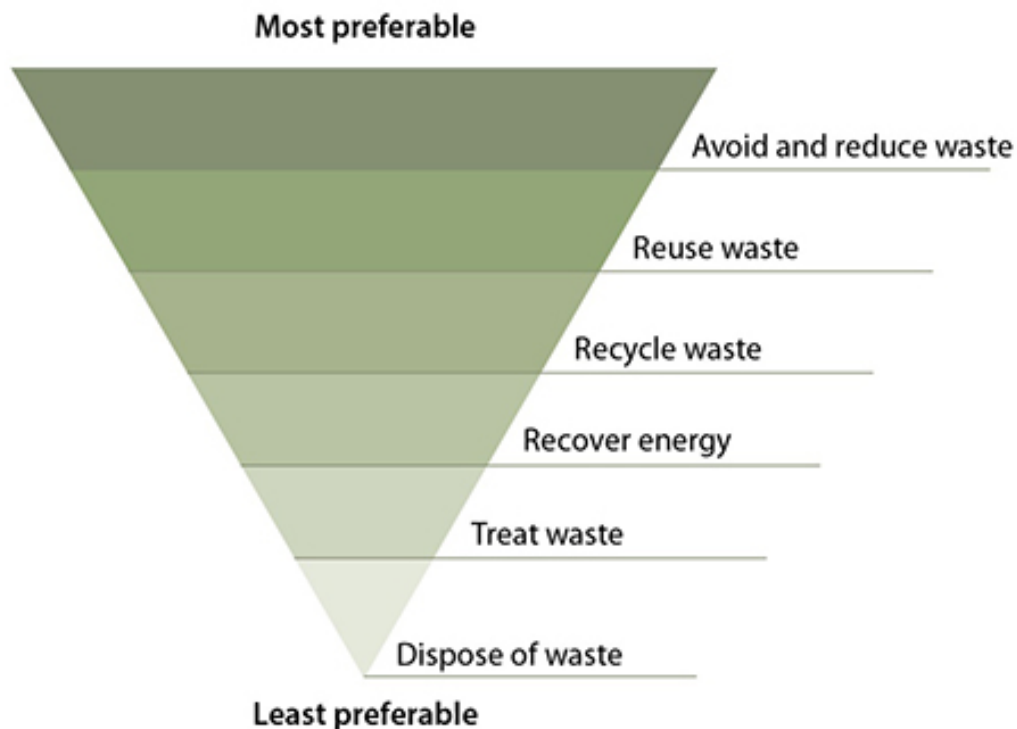


Figure 1: Waste Hierarchy

² Source: <https://www.epa.nsw.gov.au/your-environment/recycling-and-reuse/warr-strategy/the-waste-hierarchy>

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5.2 Waste Classification and Tracking

Waste is classified in accordance with the EPA waste classification guidelines. Dependent on the nature of the waste, particular hazardous waste types may be stored in secure localities to mitigate the risk of a waste management incident.

Waste is tracked in accordance with legal requirements. The types of waste that must be tracked are listed in the *Protection of the Environment Operations (Waste) Regulation 2014* and are based on the list in the *National Environment Protection (Movement of Controlled Waste between States and Territories) Measure 1998*.

All trackable waste is managed by contract service providers authorised and licensed to transport and dispose of the waste products.

Resource recovery orders are in place for a range of wastes. A listing of the current orders and exemptions is available at: <https://www.epa.nsw.gov.au/your-environment/recycling-and-reuse/resource-recovery-framework/current-orders-and-exemption>.

5.3 Waste Management Processes

Waste generated by the project is collected and segregated into appropriate waste types to enable the proper facilitation of waste classification, storage, transport, disposal and tracking. The wastes generated by the project include:

- general waste (suitable for disposal direct to an approved landfill facility off-site);
- green waste (native vegetation transported to CWEA and other vegetation removed offsite);
- waste oils (treated off site and recycled);
- borehole and exploration hole drill fines (analysed and disposed of at the CWEA if suitable or an external licensed facility if not suitable for CWEA disposal);
- drilling process muds / waters (analysed and disposed of at the drill mud ponds at the WCCPP, the CWEA or an external licenced facility to receive the waste – dependent on results of analysis);
- waste waters (treated on site and discharged via licence discharge points when quality allows or disposal off-site at a licenced facility if required);
- virgin excavated natural material (VENM), concrete, waste soil and coal materials (disposal/use at CWEA);
- sewage effluent and bathhouse waste:
 - transferred via an approved line into the Sydney Water sewer system – Appin East; or
 - treated on site and spray irrigated where permitted in accordance with EPL 2504 – Appin North and Appin West;
- oily waters (treated on-site or recycled/disposed at an approved off-site facility);
- oil filters (offsite recycling, treatment or disposal);
- waste paper, cardboard, timber and commingle (recycled off site);
- scrap steel and other metals (recycled off site);

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- batteries (treated/recycled/disposed off site);
- hazardous wastes e.g. diesel particulate filters (treated off site and disposed at an approved facility);
- hazardous substances and materials e.g. chemicals and contaminated materials (treated off site and disposed at an approved facility);
- non-hazardous mineral waste (coal wash emplaced on site at the CWEA);
- brine from water treatment plants (transported to Marley Place at Unanderra and mixed with mine water from Dendrobium Mine);
- biosolids from water treatment plant (disposed of in the drill mud ponds at the WCCPP);
- weak acid cation (WAC) ion exchange resins from the water treatment plant (treated/recycled off site);
- electronic waste (recycled off site); and
- radioactive substances (depleted or redundant radioactive substances from radiation gauges are disposed as per EPA protocols in accordance with legal requirements).

The Bund, Sump and Oily Water Separator Management Procedure provides additional detail on the management of wastes from hydrocarbon storage and treatment facilities.

The Material Acceptance Form must be completed and approved prior to the transport of any material to the emplacement for use or disposal.

5.4 Waste Mitigation Measures

Waste generated at Appin Mine and the WCCPP is sorted and segregated at dedicated waste management areas on site. The segregation allows for sorting into recyclable and other reusable products which effectively reduces the amount of waste requiring disposal to landfill.

Sorting of waste also provides for recovery of items of equipment which may be cost effectively repaired, recovered or restored for reuse.

5.5 Coal Wash Management

Coal wash is a non-hazardous mineral waste generated from the WCCPP and Dendrobium Coal Preparation Plant (DCPP) as a by-product of processing ROM coal. Coal wash is emplaced in a safe and stable manner at the CWEA, or, where possible, is beneficially reused.

Opportunities for beneficially reusing coal wash generated from the DCPP are pursued to reduce the amount of coal wash emplaced on site at the CWEA. Beneficial reuse opportunities include, but are not limited to:

- engineered fill in housing developments and road infrastructure projects;
- development of arterial and agricultural roads; and
- projects approved under an operational purpose deduction (OPD).

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Water from the emplacement (moisture in coal wash, rainfall and dust suppression water) that filters through the CWEA is captured in the underdrainage and contained in the on-site water storages.

Assay data for coal wash is maintained which includes substances relevant to National Pollutant Inventory (NPI) reporting and other trace elements. The geo-mechanical properties of coal wash have also been established to ensure that the product does not cause unintentional environmental consequences when emplaced or beneficially reused.

No waste rock or tailings are disposed of into rivers or marine environments.

IMC engaged a consultant to develop a conceptual underground emplacement trial. Areas of consideration for the consultant included methods of emplacement used elsewhere within the industry, technical aspects of underground emplacement within a high productivity mining setting, suitable underground storage areas, equipment suitability and estimates of capital and operating costs. IMC considers the work completed to date, including the assessment by the consultant, along with IMC's commitment to undertake best endeavours to direct coal wash to beneficial use in preference to surface emplacement, has fulfilled Condition 20 of Schedule 4 of the Project Approval. IMC received advice from DPIE on 3 September 2020 that the Department also considers that South32 has met the intent of Condition 20 of Schedule 4.

5.6 Construction Waste Management

Waste management strategies will be developed for project construction activities which have the potential to generate waste products that require effective management to avoid potential harmful impacts. The waste management strategies will generally address:

- nature and type of waste generated;
- analysis of waste to determine appropriate treatment and disposal requirements (if required);
- emergency response protocols;
- treatment and disposal processes;
- waste transport arrangements and disposal destination;
- waste tracking in accordance with legal requirements; and
- records management.

Suitable construction waste i.e. clean fill material, may be utilised on the CWEA as a capping material where appropriate.

5.7 Potential Environmental Impacts of Waste and Incident Response

The potential environmental impacts of waste are assessed to ensure that wastes are managed appropriately to reduce the risk of adverse consequences. In principle, no hazardous wastes are permanently stored or disposed on site. All potentially harmful wastes are treated and/or disposed off-site at approved facilities.

Potential or actual pollution incidents involving wastes causing or with the potential to cause material environmental harm will be managed in accordance with the protocols detailed in

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the Pollution Incident Response Management Plan (PIRMP) for EPL 2504. The PIRMP details the hazard assessments for particular substances at site.

6. MONITORING PROGRAM

Monthly waste management reports are provided by the contracted waste management service provider. These reports detail the types and volumes of wastes transported, disposed, or recycled and waste destinations. An annual summary is also provided.

Reports are reviewed by the Specialist Environment to identify any issues or trends. Feedback is provided to the contracted waste management service provider or relevant IMC Supervisor where appropriate.

On site waste management facilities, infrastructure, containers and storages are included in routine site inspections. Any matters identified requiring corrective action are managed through G360 (see Section 7.2).

Periodic audits of the waste management contractor processes and inspections of offsite receipt facilities will be undertaken.

7. COMPLAINTS AND NON-COMPLIANCE MANAGEMENT

7.1 Complaints and Dispute Resolution

IMC has a 24 hour, free community call line (1800 102 210) and email address (illawarracommunity@south32.net) which is displayed at IMC Projects and Mine Sites, and included in newsletters, letters and other correspondence. The call line is for all complaints and general enquiries regarding environmental or community issues associated with IMC's operations.

Community complaints and enquiries may also be received in person by any employee of IMC, with details to be immediately shared with the Community Team for investigation. All waste complaints received in relation to Appin Mine will be managed in accordance with the Handling Community Complaints, Enquiries and Disputes Procedure.

Upon receipt of a community complaint, preliminary investigations will commence as soon as practicable to determine the likely cause of the complaint. An initial response will be provided to the complainant within 24 hours of the complaint being made, with a follow up response being provided as soon as practicable once a more detailed investigation is complete.

A summary of all complaints received during the reporting year will be provided as part of the Annual Review. A log of complaints is also maintained on the IMC website at:

<https://www.south32.net/our-business/australia/illawarra-metallurgical-coal/documents>.

7.2 Non-Compliance, Corrective Action and Preventative Action

Events, non-compliances, corrective actions and preventative actions are managed in accordance with the Reporting and Investigation Standard and Environmental Compliance/Conformance Assessment and Reporting Procedure. These procedures, which relate to all IMC operations, detail the processes to be utilised with respect to event

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and hazard reporting, investigation and corrective action identification. The key elements of the process include:

- identification of events, non-conformances and/or non-compliances;
- recording of the event, non-conformance and/or non-compliance in the event management system (G360);
- investigation/evaluation of the event, non-conformance and/or non-compliance to determine specific corrective and preventative actions;
- assigning corrective and preventative actions to responsible persons in G360; and
- review of corrective actions to ensure the status and effectiveness of the actions.

Non-compliances with the WMP will be reported to all relevant agencies as detailed in Section 8.

8. REPORTING AND REVIEW

8.1 Reporting

IMC will report on the performance of the WMP in the Annual Review.

The Annual Review is prepared in accordance with the requirement of Condition 4 of Schedule 6 of the Project Approval and is submitted to relevant agencies in September each year. Annual Reviews are made available to the general public via the South32 website.

The Annual Review will include:

- a summary of waste volumes generated and recycled;
- details of initiatives to minimise and recycle waste during the reporting period, including coal wash; and
- review of the performance of management/mitigation measures.

8.2 Review of WMP

In accordance with Condition 5 of Schedule 6 of the Project Approval, the WMP will be reviewed, and if necessary revised, within three months, of:

- the submission of an Annual Review;
- the submission of an incident report;
- the submission of an Independent Environmental Audit report; or
- any modification to the conditions of the Project Approval (unless the conditions require otherwise).

Outcomes from each review will be documented in the Management Plan Review Log. The WMP will only be resubmitted to DPIE for approval where a material change to site operations or environmental management has occurred, or in accordance with the review period on WMP. Administrative or descriptive changes do not constitute a material change.

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8.3 Audits

8.3.1 *Independent Environmental Audit*

In accordance with Condition 9 of Schedule 6 of the Project Approval, an Independent Environmental Audit (IEA) shall be commissioned every three years, that will include a review of the WMP. The report is required to be submitted to the Secretary within six weeks of completion of the audit, in accordance with Condition 10 of Schedule 6.

IEAs have been conducted in 2013, 2016/17 and 2019, with the next IEA to be conducted in 2022. Recommendations from the IEA will be incorporated into the WMP where appropriate.

8.3.2 *ISO 14001*

As part of the ISO 14001 certification, IMC maintains an environmental auditing and governance program across all of its operational sites. The program, which includes the use of competent internal and accredited external auditors, is an integral part of maintaining certification under the ISO 14001 standard.

External surveillance audits are undertaken on an annual basis, with recertification audits undertaken every three years.

Internal Governance Reviews of the WMP are nominally undertaken on a two-yearly basis.

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9. SUMMARY OF COMMITMENTS

Commitment	Section in WMP
IMC will provide personnel and resources to implement the WMP.	Section 2
IMC will comply with the conditions of the approval and relevant legislation.	Section 3
IMC will manage waste to meet the waste hierarchy where possible.	Section 5.1 and 5.4
IMC will classify waste in accordance with the EPA waste classification guidelines and ensure waste is tracked in accordance with legal requirements.	Section 5.2
Waste will be disposed of, treated, recycled or reused as detailed in the WMP.	Section 5.3
Beneficial use opportunities for coal wash from the DCPD will be investigated and implemented where practicable.	Section 5.5
IMC will develop strategies for the management of construction wastes from projects where required.	Section 5.6
Pollution events causing or with the potential to cause material environmental harm will be managed in accordance with the PIRMP.	Section 5.7
The Specialist Environment will review monthly waste reports and the annual summary provided by the contracted waste management provider to identify any issues or trends.	Section 6
Regular site inspections will be undertaken to assess waste management facilities to identify issues and improvement opportunities.	Section 6
Periodic audits of the waste management contractor processes and inspections of offsite receival facilities will be undertaken.	Section 6
IMC will report and investigate complaints and incidents as required, and identify and implement corrective actions.	Section 7
IMC will undertake reporting as required.	Section 8.1
IMC will review the WMP as required.	Section 8.2
IMC will undertake audits as required.	Section 8.3



10. ACRONYMS

Term	Definition
BSO	Bulli Seam Operations
CWEA	Coal Wash Emplacement Area
CWEAMP	Coal Wash Emplacement Area Management Plan
DCPP	Dendrobium Coal Preparation Plant
DoPI	Department of Planning and Infrastructure (now DPIE)
DPIE	Department of Planning, Industry and Environment
EA	Environmental Assessment
EMS	Environmental Management System
EPA	Environment Protection Authority
<i>EP&A Act</i>	<i>Environmental Planning and Assessment Act</i>
EPL	Environment Protection Licence
G360	IMC event reporting system
ICHPL	Illawarra Coal Holdings Pty Ltd
IEA	Independent Environmental Audit
IMC	Illawarra Metallurgical Coal
NPI	National Pollutant Inventory
OPD	Operational Purpose Deduction
PIRMP	Pollution Incident Response Management Plan
<i>POEO Act</i>	<i>Protection of the Environment Operations Act</i>
ROM	Run of Mine
VENM	Virgin excavated natural material
WAC	Weak acid cation
WCCPP	West Cliff Coal Preparation Plant
WMP	Waste Management Plan

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11. REFERENCES

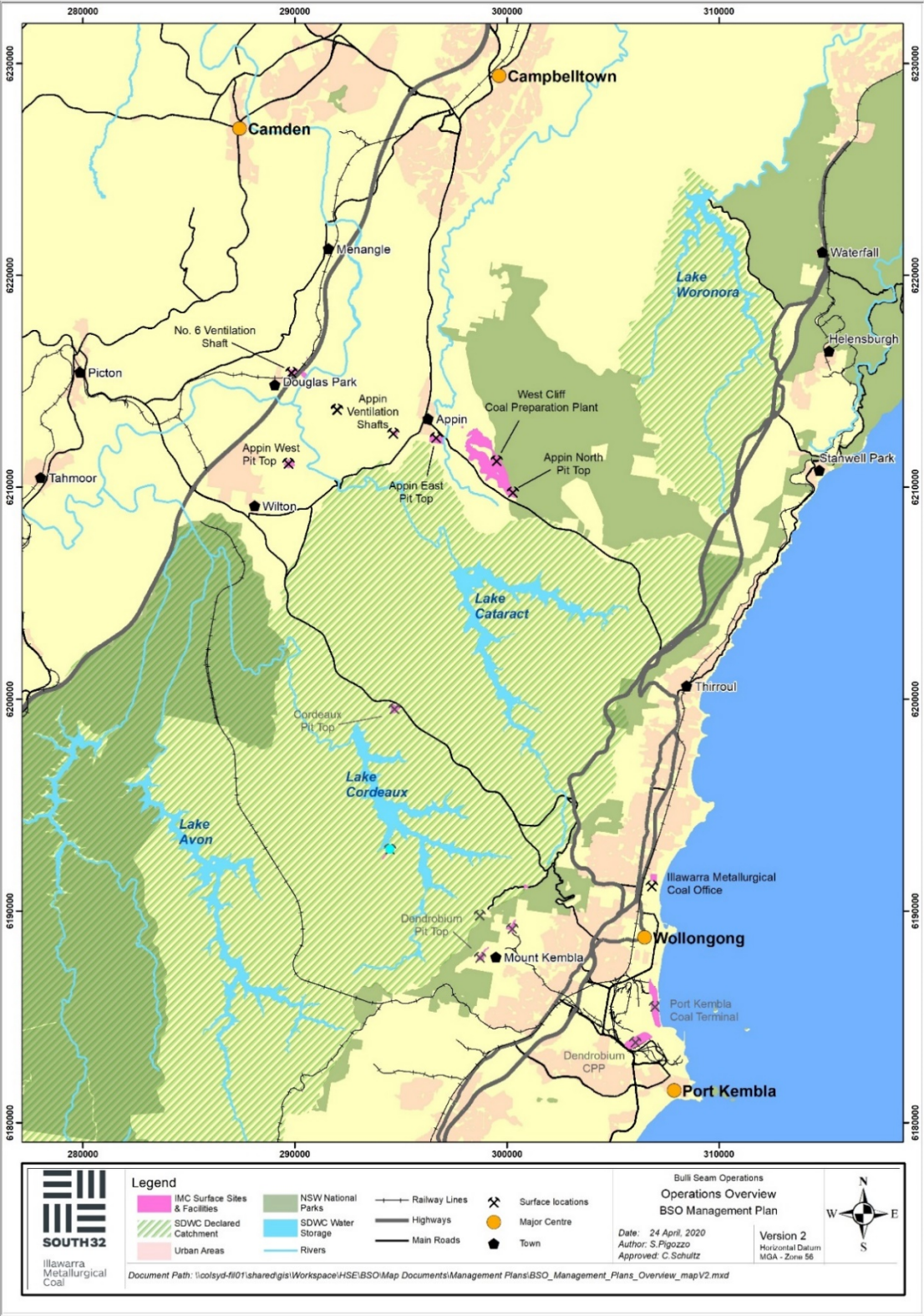
- Project Approval 08_0150
- EPL 2504
- BSO Project Environmental Assessment
- Handling Community Complaints, Enquiries and Disputes Procedure (IHP0112)
- Reporting and Investigation Standard (IMSTD0069)
- Environmental Compliance/Conformance Assessment and Reporting Procedure (IMCP0186)
- ISO 14001:2015 Environmental Management Systems Standard
- Bund, Sump and Oily Water Separator Management Procedure (IMCP0184)
- Material Acceptance Form (WCPF0663)

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12. PLANS

Plan 1: Appin Mine Locality Plan



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13. APPENDICES

Appendix 1: Project Approval Conditions: Waste Management

Condition	Requirement	Section
Condition 20 of Schedule 4	<p>The Proponent shall prepare and undertake an Underground Coal Wash Emplacement Trial for the project to the satisfaction of the Secretary. The design of the trial must:</p> <ul style="list-style-type: none"> (a) be undertaken in consultation with OEH; (b) be submitted to the Secretary for approval by the end of December 2012; (c) contain a two year program to undertake both pilot scale and demonstration scale trials of underground coal wash disposal; (d) include commitments for ongoing development and/or implementation of underground emplacement options following this two-year trial; and (e) include 6 monthly progress reporting to the Department and OEH. 	Section 5.5
Condition 28 of Schedule 4	<p>The Proponent shall:</p> <ul style="list-style-type: none"> a) minimise the waste (including coal reject) generated by the project; and b) ensure that the waste generated by the project is appropriately stored, handled and disposed of, <p>to the satisfaction of the Secretary.</p>	Sections 5.1, 5.3, 5.4, 5.5 and 5.6
Condition 29 of Schedule 4	The Proponent shall prepare and implement a Waste Management Plan for the project to the satisfaction of the Secretary. This plan must be submitted to the Secretary by 30 September 2012.	This document
Statement of Commitments Table SOC-3	<ul style="list-style-type: none"> • To minimise waste generation material generated from construction works will be utilised on site or as capping material at West Cliff emplacement area, where suitable. • Waste will be appropriately captured and transferred to suitable re-use, recycling or disposal locations. 	<p>Section 5.6</p> <p>Section 5.3</p>

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Appendix 2: Management Plan Approval

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