



11.0 Environment Standard

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1. Purpose

The Glencore Coal Assets Australia (GCAA) Environment Standard provides guidance to Australian Operations on the management of Environmental aspects and impacts. The standard is subordinate to the HSEC Management System Framework and is designed to address the Glencore Environment Standard.

2. Scope

This document applies to Glencore Coal Assets Australia (GCAA) and its operations. The requirements apply to all personnel, including managers, employees and contractors, at all levels, unless specifically excluded.

3. Document Map

This standard forms part of the GCAA HSEC Management System with supporting documents, directly relevant to this standard, shown in [Figure 3-1](#).

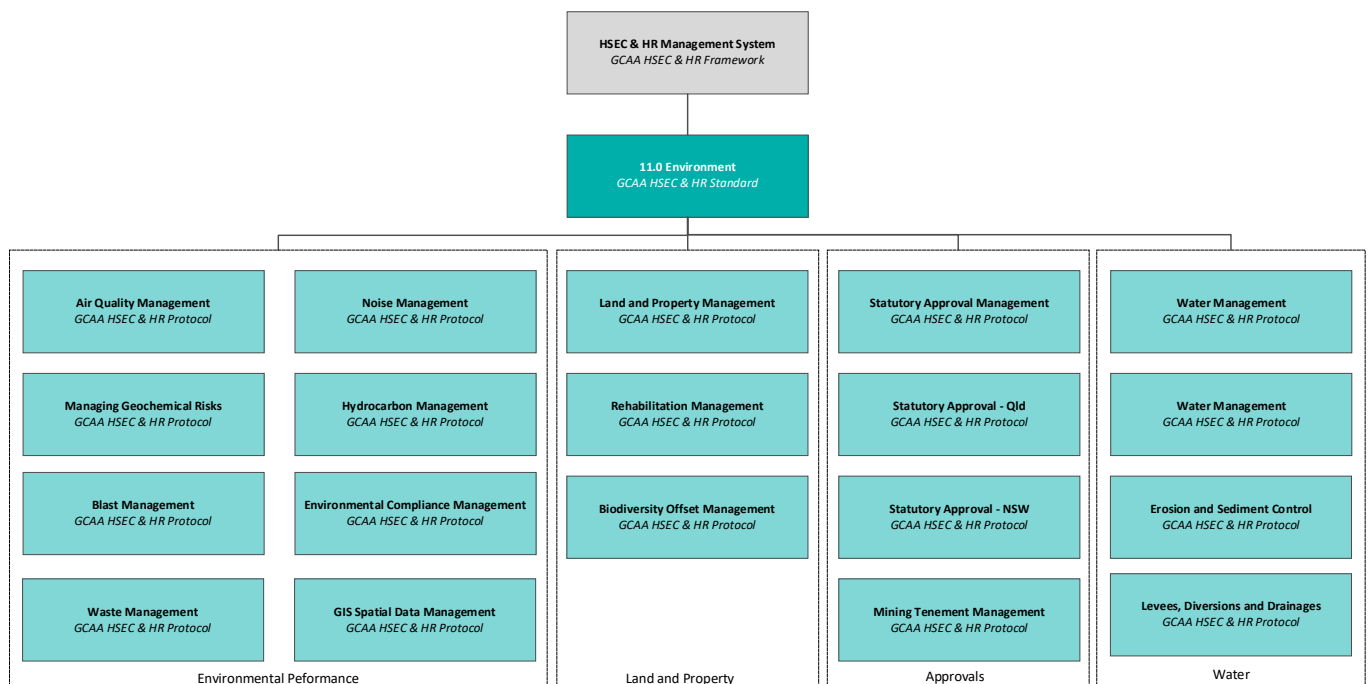


Figure 3-1 – Environment Document Map

4. Plan

Each operation is to maintain an Environment Management Strategy (EMS), developed generally in accordance with the principles of ISO 14001.

The EMS elements include:

- a) Glencore Environmental Policy
- b) Planning
- c) Implementation
- d) Measurement and Evaluation
- e) Review and Improvement

ISO 14001 sets out five steps for implementing and maintaining an environmental management system leading to continual improvement. These steps are represented in the model below.

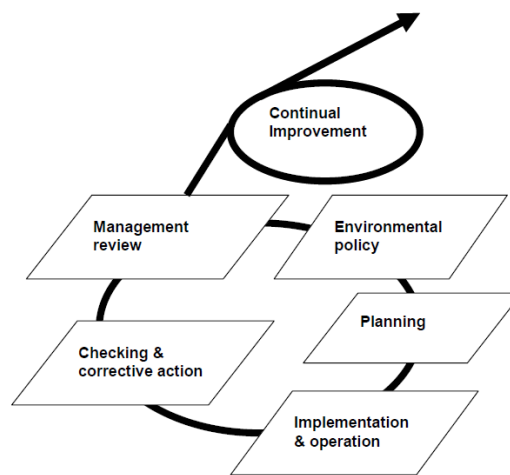


Figure 4-1 – ISO 14001 Model

4.1 Environmental Aspects and Impacts

relevant to the operation. This is an annual requirement with inputs from:

- a) Baseline environmental studies
- b) Review of environmental performance data
- c) Review of any existing or proposed changes to the operations
- d) Review of relevant legislation, standards, codes and additional external requirements
- e) Industry experience
- f) Relevant stakeholders,

11.01 Environment and Community Risk Assessments Procedure, requires a risk assessment consistent with **GCAA Standard GCAA- 625378177-2844 - Risk Management** be conducted each year.

For identified significant environmental aspects and impacts, appropriate preventative and/or mitigating measures will be documented through site environmental management systems. This may include but is not limited to management plans required from relevant government approvals. All required capital expenditure needs and provisions for future liabilities are to be considered as a part of the annual budget planning and approval process.

Each operation is to review their environmental aspects and impacts including controls to confirm that they remain relevant to our current operations and the environment with consideration of any relevant GCAA target. Any improvement actions arising from the annual EC risk assessment are to be entered and tracked in either the GCAA HSEC Compliance Database, or the GCAA Risk Database.

4.2 Baseline Environmental Studies

In order to adequately assess our impacts on the Environment, all operations should have a baseline assessment of the natural environment to monitor and measure the operations environmental impacts from our activities. An independent review may be required by GCAA management based on the associated risks (e.g. impact on communities, impact on protected or sensitive ecosystems).

GCAA has developed guidance documents for operations on how to conduct baseline environmental studies through the **GCAA Statutory Approvals Management Protocol** and subordinate documents.

If a significant change to the operation, new project or expansion is imminent, baseline studies may require independent review. Operations business plans and management decisions should be assessed in line with GCAA Change Management processes and assessed, considering:

- a) Likely changes or additions that might be imposed on the existing significant environmental aspects
- b) If the current operation's infrastructure and equipment are still suitable to meet compliance.

5. Manage

5.1 Environmental Performance

Each operation will have an Environmental Management Strategy that documents key personnel, including senior management's accountabilities in relation to environmental performance for their operation. Senior site management responsibilities will include but are not limited to providing sufficient resources to implement regulatory requirements, other obligations and the site environmental strategy. The accountabilities identified will also describe competencies and resourcing that may be required to control environmental aspects and environmental compliance.

Each site's environmental management system is to include documented processes for the response to an environmental emergency, in line with other site processes or any relevant regulatory requirements.

Each GCAA operation is required to have an environmental team on-site that are competent and sufficiently resourced. The team is to assist line management to manage and control environmental aspects and environmental compliance through recruitment practices and relevant position descriptions.

The GCAA Protocol **11.14 Environment and Community Training** provides guidance to operations on environmental training to be considered in developing site Training Needs Analysis (TNAs).

Environmental contractors, service providers and suppliers, used for environmental services or compliance, are to undergo a selection process in line with GCAA standards. This may be completed through a contract tender process, a statement of capabilities, reference checking or previous GCAA experience.

5.2 Legislative Requirements

Sites will be required to maintain a register, through CMO software, of the relevant environmental obligations for their operation.

GCAA works in collaboration with relevant stakeholders to contribute to the development of regulations and policy, where applicable to the Australian coal operations.

Environmental risks associated with applicable regulatory and non-regulatory requirements are to be considered within the site risk register in accordance with the **Glencore Risk Management Framework (Section 5)**.

Each operation is responsible for the inclusion of environmental compliance related capital expenditure including future liabilities in the site annual budget and/or Life of Mine (LOM) planning process as required. The identified expenditure should be related to the environmental aspects and impacts identified for management in [Section 4](#).

5.3 Environmental Regulations

GCAA Protocol 11.01 Environmental Compliance Management describes the processes and systems in place at GCAA for identifying, monitoring and assessing compliance with environmental regulations. The protocol specifically addresses requirements of the Glencore Environment Standard:

- a) incorporate measurement, monitoring, reporting and assurance of environmental data and performance in a management system, in accordance with the HSEC & HR Management Standard;
- b) define environmental performance management objectives and targets, aligned with the operation's, department's and Group's business objectives;
- c) allocate business resources (people, time and budget) to deliver the requirements of this standard, and ensure relevant competent professionals are engaged to support the specific environmental risk areas (air quality, biodiversity, cultural resources including archaeological, land stewardship and water); and

Environmental monitoring results required under external environmental approvals are to be stored within the operations Environmental Monitoring Database (EMD). Overall, the EMD is administered and supported by GCAA via the SD Help Desk and the process is described within **GCAA Procedure GCAA – 625378177-10274 - Environmental Reporting**.

Operations through their business planning and risk identification processes are required to identify High Environmental Risk Facilities, where the failure of the facility could potentially cause significant environmental impacts.

These facilities are to be designed, operated, maintained and inspected in accordance with relevant good practice to minimise the risk of adverse environmental impacts.

5.4 Environmental Controls

GCAA have developed a number of Protocols to assist operations with managing significant and common environmental aspects. The sections below describe the purpose of these protocols and the standard provides guidance on where to locate further information on GCAA requirements. Refer to [Figure 3-1](#).

5.4.1 Compliance Management

The purpose of GCAA Protocol **11.01 Environmental Compliance Management** is to document minimum requirements for storing evidence and managing compliance with environmental approvals including the internal assurance process.

This Protocol applies to all GCAA managed sites and projects that are operating under current environmental approvals.

5.4.2 Statutory Approval Management

The purpose of GCAA Protocol **11.20 Statutory Approval Management** is to minimise the business risk of delays to GCAA operations and projects resulting from overdue or poorly planned statutory approval applications, and to provide more reliable access to future resources. The information is applicable to major projects and to modifications of operating mines where statutory approvals are required. The document will assist Project Managers, Project Approval Managers and Environment and Community Managers at operating sites to identify the required approvals and the most efficient pathway to achieving those approvals.

GCAA Major Projects teams and operations personnel are required to undertake a consistent approach across the GCAA group, which will assist in obtaining the necessary environmental and mining approvals in an efficient and timely manner.

5.4.3 Mining Tenement Management

GCAA Protocol **11.24 Mining Tenement Management** is intended to minimise the business risk to Glencore Coal Assets Australia (GCAA) from poor management of tenements resulting in:

- a) the loss of mining rights from non-compliance with obligations or
- b) failure to renew tenements, or
- c) Incorrect relinquishment of tenements.

This Protocol document provides guidance on corporate governance processes required to be undertaken when applying for a tenement, the appropriate storage of tenements, the renewal of tenements and the relinquishment of tenements.

The information is applicable to business development projects and to operating mines. The document will assist Project Approval Managers, mine site Environment and Community Managers and Technical Services Managers to ensure that tenement documents, renewal processes and obligations are effectively managed.

5.4.4 Surface Blast Management

GCAA Protocol **11.12 Blast Management** provides guidance and direction to Surface operations in regards to the management of blasting activities to minimise environmental impacts to nearby sensitive receivers.

The Protocol has not been developed to replace or override site blast management plans, but to assist with meeting environmental legislation and/or external requirements. Generally, blast management is addressed through good safety and environmental management systems, and the implementation of these systems on-site.

5.4.5 Exploration and Drilling

GCAA Exploration Management Standard guides Operations (and contractors engaged by Operations) so that drilling activities are conducted in a healthy, safe and environmentally responsible manner, and with due consideration to the community.

The Standard applies to all surface drilling and exploration activities in GCAA including geological or geotechnical exploration drilling, and provision of mining services such as gas drainage, dewatering, supply deliveries, under-boring, but not including drilling for blasting.

5.4.6 Hydrocarbon Management

GCAA Protocol **11.07 Hydrocarbon Management** outlines the requirements for the design, installation, operation and maintenance of hydrocarbon storage facilities as well as handling practices to:

- a) Provide direction to operations to support compliance with Australian Standard (AS) 1940 – 2004 The storage and handling of flammable and combustible liquids.
- b) Minimise the risk of hydrocarbon spillages or leakages, which may lead to contamination and subsequent environmental harm.
- c) Provide that contingencies for containment and remediation are in place to minimise environmental impacts if spillages or leakage occurs.

The scope of this protocol does not include requirements in relation to the control of ignition, fire and associated emergency procedures. For guidance on these requirements; refer to the Australian Standard (AS1940).

5.4.7 Air Quality Management

GCAA Protocol **11.10 Air Quality Management** is designed to achieve a consistent approach towards air quality management to:

- a) Achieve compliance with regulatory standards, conditions and commitments, and
- b) Mitigate air quality related risks and complaints from the regulators, community and / or other stakeholders.

The Protocol establishes the minimum requirements for dust management across GCAA Sites, and provides the framework for coordinated dust management.

If the implementation of a minimum requirement poses a safety risk in a particular part of the mine however, precedence will be given to safety considerations, and an alternative dust control will be implemented. In such cases, findings and the alternative measures are to approved and documented by senior site management in consultation with GCAA.

5.4.8 Noise Management

GCAA Protocol **11.11 Noise Management** has been developed to provide guidance and direction in regards to:

- a) Effective noise management at GCAA operations.
- b) Identification of effective noise management controls during the mine planning, assessment and operational phases.

- c) Implementation of noise management minimum requirements. This will reduce the potential for impacts, including the implementation of activity specific noise controls and site-wide management systems and procedures.
- d) Use of automated systems for early identification of adverse meteorological conditions, which are likely to result in noise impacts such as gradient winds and temperature inversions.
- e) Monitoring and reporting requirements for noise management at GCAA operations.
- f) Implementation of noise awareness training for employees to facilitate effective noise management.
- g) Integration of noise management into the entire life of mine, from mine planning to mine rehabilitation and closure.

This Protocol does not replace or override environmental legislation or external requirements. This Protocol applies to GCAA managed activities, operations, sites and facilities including new acquisitions and exploration sites. This Protocol provides guidance on the minimum requirements for GCAA managed sites through all phases of mining, from operation planning and assessment in the feasibility / assessment phase, through operational phases and to post-mining activities.

5.4.9 Pipeline Management

GCAA Protocol **11.02 Pipeline Management** provides guidance to projects and operations on the design, operation and management of pipelines based on a risk management approach.

The Protocol will assist operations to:

- a) Identify the risks associated with pipelines including both the operational and environmental risks.
- b) Provide guidance on appropriate design standards for pipelines.
- c) Provide guidance on appropriate controls for operation of medium and high risk pipelines.
- d) Outline the monitoring and inspection regimes required to manage medium and high risk pipelines.

5.4.10 Water Management

GCAA Protocol **11.03 Water Management** sets out the requirements for all operations in relation to the effective management of water resources and reducing the risks to operations from climatic events. This environmental objectives of the Operational Water Management Protocol are:

- a) Satisfy regulatory requirements.
- b) Provide adequate water supplies to maintain and support operations.
- c) Maximise water use efficiency and minimise impacts on (use of) public water resources.
- d) Prevent long term, water related closure liabilities.
- e) Water usage and water related impacts of GCAA's operations are monitored and reported in a transparent manner that is consistent with the obligations under the ICMM Water Stewardship Principles.

The operational objectives of the Operational Water Management Protocol are:

- a) Ensure there is sufficient water infrastructure to support mining operations in both floods and droughts.

- b) Develop and implement Trigger Action Response Plans (TARPs) to reflect the action required to minimise the impacts to the operation of drier or wetter years than the operational targets adopted.
- c) Water management works are scheduled, budgeted and constructed such that the proposed mine plan can be implemented.
- d) Licensing and approvals required are identified in advance of the proposed works and are incorporated in the project schedules.
- e) The impacts of both open cut and underground mining infrastructure on water management infrastructure and surface water and groundwater systems are considered in mine planning.
- f) Having all critical mining operations and infrastructure protected from flooding up to a suitable design flood that reflects that potential risk to the operation.

5.4.11 Sediment and Erosion

GCAA Protocol **11.06 Erosion and Sediment Control** sets out the requirement for the implementation of erosion and sediment controls. This enables mining operations and land disturbance activities to be conducted in accordance with legislative requirements and to minimise impacts on the environment and community. The Protocol sets out:

- a) Appropriate design standards.
- b) Minimum information requirement to be submitted to support a ground disturbance permit.
- c) Responsibilities for authorisation of works outside current disturbance footprint.
- d) Requirements for earthworks contractors.
- e) References standard design details.
- f) Requirements to inspect and maintain controls.

5.4.12 Dams and Diversions

Dams and creek diversions are major structures that have significant capital expenditure, may involve operational risks and can represent a significant environmental liability. The purpose of GCAA Protocol **11.05 Dam and Diversions** is to detail dam and diversion design and management. This will meet our legal and environmental obligations, minimise capital expenditure and limit future closure liability. The Protocol will assist operations to:

- a) Appropriately plan major structures.
- b) Establish the minimum engineering design criteria to be applied and set out the requirements for engineering certification of the works.
- c) Undertake failure impact assessments to be carried out for all major infrastructure.
- d) Manage changes to the structures so that they are appropriately designed, constructed and certified.
- e) Adequately budget for the construction and maintenance of the structures.
- f) Identify the legal and environmental obligations.
- g) Establish the monitoring and inspection regimes required to manage these structures and set out the system for regular engineering review.
- h) Confirm adequate financial provision for the closure at the end of mine life.

- i) Provide guidance on the management and restoration of legacy diversions.

5.4.13 Environment and Community Training

The purpose of GCAA Protocol **11.14 Environment and Community Training** is to assist sites in developing Training Needs Analyses that include skills and awareness training relevant to environment and community aspects of the business. The Protocol sets minimum requirements and provides recommendations for training for site personnel. A training plan for graduates in the environment and community stream is also included in this Protocol.

5.4.14 Land and Property Management

The GCAA Protocol **11.15 Land and Property Management** provides guidance and direction regarding the management of mining land, agricultural land, residential properties, mine towns and any other land owned or managed by GCAA. This will assist GCAA operations to:

- a) maintain GCAA's land and property assets in a manner that enhances or preserves their existing condition where possible, and sustains adequate visual amenity;
- b) maintain residential premises to a standard that meets legal, health and safety requirements to provide for ongoing occupation;
- c) manage agricultural land in a sustainable manner to preserve, and where possible enhance agricultural productivity and biodiversity conservation outcomes;
- d) manage GCAA's land and property assets in a manner that does not increase our liability; and
- e) manage rates, taxes, valuation notices and land lease or occupation renewals consistently and meet due dates for submission of payments, lodgements and renewals.

The Protocol applies to all land and property associated with GCAA mining operations, sites and facilities and mine owned towns.

5.4.15 Rehabilitation Management

GCAA Protocol **11.16 Rehabilitation Management** provides guidance and direction regarding rehabilitation planning, resourcing and execution through all phases of mining. This includes operation planning and assessment in the feasibility / assessment phase, through operational phases and post-mining activities.

The Protocol will assist GCAA operations to:

- a) Plan and budget for rehabilitation activities, including integration of rehabilitation planning into mine planning processes.
- b) Undertake rehabilitation progressively towards defined rehabilitation objectives for the site.
- c) Meet annual targets for rehabilitation outlined in mine approval documents and plans.
- d) Achieve positive rehabilitation outcomes in terms of quantity, quality and timing.
- e) Meet GCAA, legal and stakeholder objectives for sustainable post-closure landscapes.

The Protocol applies to GCAA managed activities, operations, sites and facilities.

5.4.16 Biodiversity Offset Management

GCAA recognises the need to identify and manage biodiversity offsets required by operations approvals. The GCAA Protocol **11.18 Biodiversity Offset Management** covers the need to identify and manage biodiversity offsets to address significant residual impacts from operations. In response to this, GCAA has developed a strategic biodiversity offsetting approach (this guideline) to ensure that all current and future biodiversity offsetting packages are developed in a consistent and consolidated manner that provides for appropriate biodiversity outcomes, while ensuring consideration of other important government and community expectations for these lands, such as continued agricultural use.

This document is designed to provide guidance to GCAA's operations and projects in New South Wales (NSW) and Queensland (Qld). The document describes:

- a) how GCAA will meet the objectives and commitments for biodiversity offsetting contained within relevant statutory requirements, planning instruments and other strategic documents for NSW, Qld and the Commonwealth;
- b) the process adopted by GCAA for assessing impacts on biodiversity, defining biodiversity offset requirements, identifying and securing suitable offset areas and managing the offsets for biodiversity gain; and
- c) GCAA's strategic direction for biodiversity offsetting, providing the overarching management context from which the site-specific offset strategies and management approaches will be developed and implemented.

5.4.17 GIS Spatial Data Management

GCAA Protocol **11.19 GIS Spatial Data Management** provides guidance for GCAA spatial data requirements for GIS data including spatial data storage, management, update procedures and standardisation.

The Protocol provides guidance, understanding and a common language for spatial data management across GCAA. Implementation of an effective, rigorous data management protocol provides for data to be treated as a valuable and long-life asset.

The Protocol applies to the management, use and storage of all spatial digital information for use in GIS managed by Environment and Community (E&C) personnel. Other spatial data requirements external to E&C (for example, Survey Data) are beyond the scope of this Protocol.

5.4.18 Waste Management

The purpose of GCAA Guideline **11.08 Waste Management** is designed to:

- a) Provide guidance on effective waste management practices to be implemented at GCAA and its operations to minimise and recycle waste.
- b) Identify compliance requirements for applicable Commonwealth and State legislation and conditions of relevant approvals.
- c) Encourage employees and contractors to adopt the waste management strategies of minimising waste generation and maximising reuse and recycling.
- d) Identify safe and appropriate handling, treatment and disposal of all waste generated at GCAA and its operations.
- e) Facilitate monitoring, reporting and auditing of waste management performance.

The Protocol provides guidance on the minimum requirements for GCAA sites through all phases of waste management.

5.4.19 Managing Geochemical Risk

GCAA Protocol **11.26 Managing Geochemical Risks** provides guidance to GCAA operations in identifying, managing and monitoring of geochemical risks from operations through to mine closure, to meet the requirements of the Glencore Environmental Policy and Glencore Coal Assets Australia Protocol for Mine Closure Planning.

All mines are required to have a proper understanding of geochemical risks associated with its material types, while all future projects (new or expansions to existing operations) require geochemical characterisation. Appropriate management measures will be put in place to manage geochemical risks to an acceptable level.

Once any operation is in the closure / post-operations phase, it is unlikely to find any new geochemical impacts. Any operations should have a proper understanding of areas on the site where geochemical impacts may have occurred, and should be well advanced in addressing those, if not completely resolved.

6. Inspections

Regular environmental inspections (the frequency of which will be determined by the risk associated with the environmental issue/aspect being inspected) are to be undertaken at each operation. The inspections are to assess compliance with legislation, standards, codes and other requirements. A formal monthly inspection program is to be implemented at each operation by the Environment and Community Manager.

Inspections are to be conducted by the relevant Environment and Community Manager or their delegate and recorded in the GCAA HSEC compliance database.

In the event a non-conformance is identified during an inspection, corrective and/or preventative actions are to be developed. The completion and effectiveness of the corrective and/or preventative action is to be assessed post-implementation, with tracking of actions also stored in the GCAA HSEC compliance database.

7. Communication and Consultation

Regular scheduled meetings for operations managers and GCAA management are to be in place to discuss performance, policy and legislation issues, critical issues and projects.

In order to facilitate effective communication between GCAA and its operations, a range of internal meeting processes exist. The meetings are to confirm that the performance of the operations is regularly reviewed, any key operational issues are identified and addressed, and any key opportunities or good practices are shared across GCAA. An overview of the internal meeting program is detailed in [Appendix A](#).

7.1 Operations

Environment and Community personnel are to be represented during regular operational meetings, to integrate environmental aspects and impacts into the ongoing operation of the business. The frequency of attendance should be determined using a risk based approach, giving consideration to the nature of operations at the time and the potential of operations to result in unacceptable environmental impacts.

Operations and projects are to determine and schedule appropriate regular communication forums to discuss environmental matters. The following types should be considered:

- a) Management addresses to the workforce.
- b) Pre-operation team briefings to make people aware of hazards and other environmental matters.
- c) Toolbox talks on topical environment matters.
- d) Regular communication and feedback meetings on environment performance.
- e) Management meetings, environment being an agenda item.
- f) Group conferences or management meetings—for example, meetings of the Mine Managers, a weekly meeting of site EC personnel to determine progress of the existing operations.
- g) Annual E&C meetings with site senior management to review the performance of the operation against the HSEC Annual Plan, prior to the review of the EMS.

7.2 Reporting

7.2.1 Internal Reporting

Internal environmental reporting will be undertaken through the submission of an Environment and Community Status Report in the HSEC compliance database. This report is formally documented and provides an update on Environment and Community issues for the site.

Sites are to conduct regular meetings to discuss short and medium term Environment and Community management issues and projects. This will include reviewing current and pending actions in the HSEC compliance database.

7.2.2 External Reporting

GCAA and its operations have a range of external reporting requirements which are required to be undertaken to meet external legislative requirements. An overview of these requirements is provided in **Table 7-1** below.

Report	Frequency	Recipient (s)	Requirement for Reporting/Comments	Applicable State
EPL Annual Return and Statement of Compliance	Annually	EPA	Environment Protection Licence	NSW
EPL Monitoring Data	Within 14 days of receipt	Public via website	Environment Protection Licence	NSW
Annual Review	Annually	As defined by Project Approval/Development (NSW) Consent/Environmental Authority (QLD)	Project Approval (NSW)/Environmental Authority (QLD)	NSW and QLD
National Pollutant Inventory Report (NPI)	Annually	Federal Government Department of Sustainability, Environment, Water, Population and Communities	National Environment Protection Measure	NSW and QLD
National Greenhouse and Energy Reporting System (NGERS)	Annually	Clean Energy Regulator	National Greenhouse and Energy Reporting Act 2007	NSW and QLD

Table 7-1 – External Reporting Requirements



Note

Specific reporting requirements may vary depending individual approval requirements. Each site is to review their external reporting requirements and outline these as a part of their EMS.

8. Review

Operations are to have systems and monitoring plans in place to measure and monitor environmental performance (including energy use, greenhouse gas emissions and improvement programs), including but not limited to GCAA focus areas and good practice benchmarking, where feasible.

Each operation is to report environmental performance to relevant internal and external stakeholders as required and in accordance with business needs.

Operations are to implement regular reviews of their actual environmental performance and management systems. Senior management reviews will be conducted through meetings, regular inspections and internal and external reporting requirements and will include:

- a) Risk identification and assessment processes.
- b) Prevention, mitigation and/or remediation measures.
- c) Environmental planning.
- d) Emergency preparedness.
- e) Monitoring activities.
- f) Compliance status.
- g) Identification of potential improvement opportunities by comparison with leading environmental practices.
- h) Identified leading environmental practices are shared within the business.

9. Document Information

Relevant legislation, standards and other reference information must be regularly reviewed and monitored for updates and should be included in the site management system. Related documents and reference information in this section provides the linkage and source to develop and maintain site compliance information.

9.1 Definitions

All terms and definitions are detailed in a single GCAA document, **GCAA-625378177-10063 GCAA HSEC Definitions and Terms**. This is a common document to provide standardised terminology across all areas.

9.2 Related Documents

Related documents, listed in [Table 9-1](#) below, are *documents* directly related to or referenced from within this document.

Number	Title
GCAA-625378177-10524	GCAA HSEC Management System Framework
GCAA-625378177-2844	Risk Management
GCAA-625378177-10301	11.01 Environmental Compliance Management
GCAA-625378177-10248	11.02 Pipeline Management
GCAA-625378177-10320	11.03 Water Management
GCAA-625378177-15551	11.04 Tailings Storage Facilities
GCAA-625378177-10322	11.05 Dams and Diversions
GCAA-625378177-10323	11.06 Erosion and Sediment Control
GCAA-625378177-10243	11.07 Hydrocarbon Management
GCAA-625378177-10249	11.08 Waste Management
GCAA-625378177- 4126	Exploration Management
GCAA-625378177-10324	11.10 Air Quality Management
GCAA-625378177-10238	11.11 Noise Management
GCAA-625378177-9975	11.12 Blast Management
GCAA-625378177-13661	Energy and Greenhouse Gases
GCAA-625378177-10240	11.14 Environment and Community Training
GCAA-625378177-10242	11.15 Land and Property Management
GCAA-625378177-10241	11.16 Rehabilitation Management
GCAA-625378177-10325	11.17 Mine Closure Planning
GCAA-625378177-10326	11.18 Biodiversity Offset Management

Number	Title
GCAA-625378177-10327	11.19 GIS Spatial Data Management
GCAA-625378177-13514	11.20 Statutory Approval Management
GCAA-625378177-10267	11.20 Statutory Approvals QLD
GCAA-625378177-10328	11.20 Statutory Approvals NSW
GCAA-625378177-9978	Cultural Heritage Standard
GCAA-625378177-10265	Cultural heritage Protocol
GCAA-625378177-13097	11.26 Managing Geochemical Risk
GCAA-625378177-10274	11.01 Environmental Reporting

Table 9-1 – Related documents

9.3 Reference Information

Reference information, listed in [Table 9-2](#) below, is *information* that is directly referred to for the development of this document.

Reference	Title
EPA 99	Environmental Planning and Assessment Act 1979 (NSW)
PEOA 97	Protection of the Environment Operations Act 1997 (NSW)
EPA 94	Environmental Protection Act 1994 (QLD)
NPWA 74	National Parks and Wildlife Act 1974 (NSW)
ACHA 03	Aboriginal Cultural Heritage Act 2003 (QLD)
NGERS 07	National Greenhouse and Energy Reporting Act 2007

Table 9-2 – Reference information

9.4 Change Information

Full details of the document history are recorded in the document control register, by version. A summary of the current change is provided in **Table 9-3** below. Example detail shown below.

Version	Date	Change Details
1.0	01 September 2014	New document based on Glencore and GCAA requirements, including: <ul style="list-style-type: none"> - Includes NSW and QLD information and reference to related protocols. - Application of new GCAA template and format
2.0	14 July 2016	Migrated to new Document Management System, no content change
3.0	06 June 2018	Document reviewed. Document ID references updated. No significant changes to the content of the document.
4.0	14 March 2022	Updated to reflect introduction of new G PLC HSEC Standards

Table 9-3 – Change information

Appendix A - Typical Internal Environment Meeting Schedule

Meeting	Purpose	Attendees
Weekly		
Qld E&C Teleconference	Update on incidents and complaints or critical issues	<ul style="list-style-type: none"> E&C Manager QLD (Chair) QLD Site EC Managers
NSW E&C Teleconference	Update on incidents and complaints or critical issues	<ul style="list-style-type: none"> Environment and Climate Change Manager (Chair) NSW Site E&C Managers
GCAA E&C Teleconference	<ul style="list-style-type: none"> Discussion on key issues in each respective area, whether they relate to performance or where assistance may be required. Update on key projects being worked on; Key events for the upcoming week 	<ul style="list-style-type: none"> General Manager E&C (Chair) General Manager E&C - Direct Reports
Monthly		
E&C Monthly Meeting	<ul style="list-style-type: none"> To receive an update on the overall business performance with a particular focus on E&C. Provide an update on the status of how each section is tracking to deliver EC plans. The focus of the meeting will be on key issues that could impact achieving plans and goals. 	<ul style="list-style-type: none"> General Manager E&C (Chair) General Manager E&C - Direct Reports
Quarterly		
QLD E&C Meeting (last month of quarter)	Update on: <ul style="list-style-type: none"> Performance Key developments in each E&C Department Key policy and legislation issues Site feedback on key issues Information sharing Possible site visit on a rotational basis 	<ul style="list-style-type: none"> General Manager E&C (Chair) General Manager E&C - Direct Reports excluding NSW Approvals and Cultural Heritage Manager Qld Site E&C Managers QLD Approvals Managers All site E&C staff of the host site if applicable QLD based E&C Graduates
NSW E&C Meeting (last month of quarter)	Update on: <ul style="list-style-type: none"> Performance Key developments in each E&C Department Key policy and legislation issues Site feedback on key issues Possible site visit on a rotational basis 	<ul style="list-style-type: none"> General Manager E&C (Chair) General Manager E&C - Direct Reports excluding QLD Approvals and Cultural Heritage Manager and the E&C Manager QLD NSW Site E&C Managers NSW Approvals Managers All site E&C staff of the host site if applicable NSW based E&C Graduates