# Plan

# Hazardous Materials and Chemical Substances

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| **Department** | **Waihi Operations - Sitewide** |
| **Location/Site** | Waihi |

# Approval table

| | Position title | Name | Date |
|---|---|---|---|
| **Authored by** | Snr Environmental Advisor | M Burroughs | 17/10/2022 |
| **Reviewed by** | Snr Environmental Advisor | S. Reynolds | 14/11/2025 |
| **Approved by** | Environmental Superintendent | M Burroughs | 14/11/2025 |

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# 1 PURPOSE

This plan is a roadmap document detailing how OceanaGold Waihi addresses one of its key Material Risks. Hazardous Materials and Chemical Substances is one of seven Waihi risks identified that are at higher risk of causing environmental harm, in particular Cyanide. OceanaGold acknowledge that without appropriate management cyanide can have significant impacts on worker health, the environment and communities. The company is committed to minimising these potential impacts through effective product stewardship, optimising use, and a strong focus on operational control and performance.

There are five existing plans which address the Hazardous Materials and Chemical Substances risk:

- WAI-200-PLN-004 Waste Management Plan
- WAI-200-PLN-005 Hydrocarbon Management Plan
- WAI-200-PLN-018 Hazardous Substances Use and Management Plan - Underground Depot, Waihi
- WAI-250-PLN-003 Hazardous Substances Principal Hazard Management Plan
- WAI-451-PLN-002 Cyanide Management Plan

To ensure compliance with the requirements of the applicable New Zealand legislation and regulations.

# 2 SCOPE

This procedure applies to all employees and contractors of OceanaGold who undertake Hazardous Materials and Chemical Substances tasks at the OceanaGold Project.

# 3 REFERENCE AND COMPLIANCE

| Level | Source |
|---|---|
| Legislation or Guidelines | • Health and Safety at Work Act 2015 |
| | • Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2016 |
| Corporate | • OGC-450-STD-020 OceanaGold Safety Performance Standards |
| | • OGC-450-GUI-005 Risk Management Guidelines |
| Site | • WAI-250-PRO-007 PPE |
| | • WAI-200-PLN-004 Waste Management Plan |
| | • WAI-200-PLN-005 Hydrocarbon Management Plan |

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|---|---|
| | • WAI-200-PLN-018 Hazardous Substances Use and Management Plan - Underground Depot, Waihi |
| | • WAI-250-PLN-003 Hazardous Substances Principal Hazard Management Plan |
| | • WAI-451-PLN-002 Cyanide Management Plan |
| | • WAI-250-PLN-001 Emergency Management Plan |

# 4 RISK ASSESSMENT

The site risk register is to be reviewed after all significant incidents. Formal Risk Assessments (FRA) are to be undertaken where changes to this document affect safety of personnel. Risk Assessments are to be conducted according to OGC-450-GUI-005 Risk Management Guidelines.

Hazardous materials and chemicals are identified in the site risk register. A summary of identified risks and controls can be found in Appendix 9.1.

## 4.1 Control Measures

Section 8 of the Hazardous Substances Principal Hazard Management Plan lists critical controls. These are:

- Standard operating procedures for working with high-risk chemicals, including emergency response
- Staff training in use the chemicals
- Safe work practices, including good housekeeping and regular cleaning of work areas
- Inventory checking and prompt disposal of hazardous chemicals that are no longer required
- Keeping containers of hazardous chemicals appropriately bunded and segregated
- Spill kits are available to clean up spills immediately
- Provision of washing facilities for rinsing off chemicals (e.g., hand washing, eye-washes safety showers)
- Appropriate chemical-resistant gloves must be selected in relation to the chemical being handled Some gloves may be resistant to certain substances but may break down or even react with others
- Using full-face respirators rather than a half-face respirator, and chemical splash suits during any high-risk chemical mixing operations which can cause skin and respiratory allergic reactions

# 5 STANDARD REQUIREMENTS

OceanaGold standard 6.0 Hazardous Materials and Chemical substances applies to the Waihi site. Its purpose is to “ensure the effective selection, purchase, transportation, handling, and storage of hazardous substances, compliant with all legislative and licence requirements and to minimise their potential adverse impacts of hazardous materials and chemical substances on workers and the environment.” How the standard is addressed is detailed in Appendix 9.1.

OceanaGold standards are audited internally by site audit team members and externally by OceanaGold Corporate every 3 years. Any non-compliances or opportunities for improvement are entered and actioned in INX InControl.

Additionally, sites must review compliance against the Cyanide Management Plan annually with corrective actions developed for issues and opportunities identified during the audit process and undertake independent third-party audits of compliance against the Cyanide Management Plan every three years and develop corrective actions for issues and opportunities identified during the audit process.

## 6 RESPONSIBILITIES AND ACCOUNTABILITIES

| Role | Responsibility |
|---|---|
| **Asset President** | • Ensure adequate resources are available to carry out the requirements of this procedure safely<br>• Ensure relevant training is provided for all personnel<br>• Shall demonstrate personal accountability through compliance to this procedure |
| **Dept Managers, Superintendents & Supervisors** | • Ensure relevant personnel are trained in this procedure<br>• Conduct regular workplace inspections to ensure all personnel are following the guidelines set out in this procedure<br>• Shall demonstrate personal accountability through compliance to this procedure |
| **Workers** | • Comply with the requirements of this procedure<br>• Provide feedback to the supervisor on improving ways to carry out a task and any concerns with current practices |

## 7 RECORDS AND DOCUMENTATION

OceanaGold uses the on-line safety management system and software INX to record and store safety, health, hygiene, and training requirements. Records are stored securely and indefinitely within this facility. The following suites are specific to the type of data stored and managed:

- InControl – Event and incident reporting, action tracking, audits, inspections, task observations, Mine Record Entries and Management of Change
- InTuition – Worker's training and competency requirements
- Cority – Injury Management, Worker health monitoring and occupational hygiene monitoring programs.

All inspection and maintenance records are to be held by the relevant department or through corporate maintenance databases i.e., Pronto

This document is a controlled document secured within the OceanaGold document control system Team Binder and published to the site through SharePoint.

Any changes made to this document must be documented in the revision reference.

## 8 AUDIT AND REVIEW

This procedure shall be reviewed every two years as a minimum and/or in any of the following circumstances:

- Following any event or investigation that impacts on this procedure
- Any amendments to the site risk register
- Any amendments to legislation

# 9 APPENDICES

## 9.1 OceanaGold Corporate Standards

| Standard Requirements | Compliance |
|---|---|
| Comply with host countries legislative requirements regarding the safe transport, storage, use, handling and disposal of hazardous material | |
| A risk assessment shall be conducted to identify the risks associated with the security, transportation, storage, compliance and handling of hazardous materials generated and used by the Business Unit | Site risk register |
| A plan describing all systems, processes, procedures, controls and safeguards undertaken to manage risks identified in the risk assessment shall be developed, implemented, communicated and maintained | Multiple plans |
| Where cyanide is used at the Business Unit, a Cyanide Management Plan shall be developed, implemented and communicated in accordance with the OceanaGold Statement of Position on Cyanide use. This plan shall describe how; | Plan implemented |
| · Cyanide use is minimised; | |
| · Monitoring, validation and reporting of compliance with all regulatory requirements relating to cyanide is undertaken; | CN Management Plan |
| · Transparent communication and collaboration with stakeholders in relation to cyanide management is achieved; | CN Management Plan |
| · Host country regulatory requirements and the principles and standards of the International Cyanide Management Institute (ICMI) are achieved; | CN Management Plan |
| · Conformance against the Cyanide Management Plan is reviewed annually with corrective actions developed for issues and opportunities identified during the audit process; and | CN Management Plan |
| · Independent third-party audits of compliance against the Cyanide Management Plan are undertaken every three years and ensure corrective actions for issues and opportunities identified during the audit process are developed. | CN Management Plan |
| The General Manager of the relevant Business Unit shall review and authorise any plan's and shall be accountable for their implementation and ongoing effectiveness | CN Management Plan |
| A process shall be implemented to assess and approve all substances prior to being allowed on-site. | ChemAlert |
| All substances shall have a current Safety Data Sheet (SDS) readily available | ChemAlert |
| Each Business Unit shall maintain a Hazardous Substances Register providing details of the following: | ChemAlert |
| • Quality and certification requirements for tyre, rim, and wheel assemblies; | ChemAlert |
| • The product name; | ChemAlert |
| • The United Nations identification code; | ChemAlert |
| • Storage locations, requirements and precautions; | ChemAlert |
| • Summary of maximum inventories; | ChemAlert |
| • Estimation of current inventories; | ChemAlert |
| • Approved disposal methods; and | ChemAlert |

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| • Hazardous substance identification as identified by any statutory approval requirement. | ChemAlert |
| All personnel handling hazardous substances as part of their work activities shall be trained and competent in the safe use, handling and storage of these substances. | InHealth Training records |
| Signage shall be placed on all storage vessels, containers and tanks that complies with host country legislation or SDS requirements. | Hazardous Substances Principal Hazard Management Plan |
| Where the type or volume of chemicals used or stored changes materially, the Business Unit shall determine the need for any required licence and permit changes. Processes shall be in place to ensure this occurs prior to any modifications being made. | Management of Change Process |
| Storage tanks and piping shall be certified, regularly inspected and approved for the conditions of use, and be made of a suitable material to be impervious to the chemicals stored in them. They are to be routinely inspected and maintained and situated above ground. | Hazardous Substances Principal Hazard Management Plan |
| Piping and flow lines shall be colour-coded and marked to indicate the contents and direction of flow. | Hazardous Substances Principal Hazard Management Plan |
| Plant control systems shall be in place wherever practicable to eliminate the need for operator intervention. Such controls shall incorporate fail safe systems in the event of emergencies. Where automatic control is not practicable, risk assessments shall be used to identify and implement operational processes, that reduce the risk to As Low as Reasonably Practicable (ALARP) and include; | Hazardous Substances Principal Hazard Management Plan |
| • Training and competency; | As above |
| • Storage and handling; | As above |
| • Signage, demarcation and restricted access; and | As above |
| • Monitoring and alarms. (Site) | As above |
| Adequately segregated stored hazardous substances, based on: | As above |
| • Quantity of materials stored; | As above |
| • Physical state of the chemicals (solid, liquid or gas); | As above |
| • Degree of incompatibility; | As above |
| • Manufacturer's instructions; and | As above |
| • Known behaviour of the materials. | As above |
| Store all new installations and environmentally hazardous chemicals within low permeability bunded compounds designed in compliance with AS 1940 –2017 The Storage and Handling of Flammable and Combustible Liquids. | Hazardous Substances Principal Hazard Management Plan |
| All bunded compounds shall be maintained to provide: | |
| • Capability to allow recovery of liquid; | As above |
| • Chemical resistant to the substances stored; | As above |
| • Valves, pumps and metres associated with the transfer are operable as required; | As above |
| • Adequately protected and contained equipment; | As above |
| • Any potential jetting from any storage vessel or fitting is captured within the bunded area; | As above |
| • Incompatible chemicals are physically segregated and do not come into contact with each other; and | As above |
| • Capable of holding 110% of the largest vessel in that area. Where this requirement is not able to be met the Business Unit shall detail additional controls in their plan to provide appropriate protection for workers and the environment. | As above |

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| Make available spill response kits and place them in work areas where hydrocarbons and other substances may require containment and clean-up. | Hazardous Substances Principal Hazard Management Plan |
| Conduct spill recovery and clean-up. | InHealth |
| Document emergency response to chemical events in the Business Units Emergency Management Plan. | Emergency Management Plan |
| Radiation | |
| Where radiation sources are used by a Business Unit, a Radiation Safety Officer shall be appointed. | Radiation Safety Plan |
| A register of all radiation sources shall be maintained and reviewed annually. | Radiation Safety Plan |
| Sign post all radiation sources, and all unused and expired sources shall be securely held in a locked storage facility that meets the host country legislation. These disused radiation gauges shall be removed off-site by an approved contractor, at intervals not exceeding 10 years. | Radiation Safety Plan |
| Radiation sources shall be tested for the presence of leaks on a regular basis using an approved radiation leak detection device. | Radiation Safety Plan |