



# Integrated Mine Closure and Relinquishment Solutions



**okane**

 Okane Consultants

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## About Us

Okane helps mining companies to return the land responsibly and safely at the end of a mine's lifecycle. We believe in challenging the status quo and advocate for meaningful partnerships and positive outcomes for community stakeholders and Indigenous rightsholders. Our solutions help our clients achieve positive financial, environmental, and social outcomes from feasibility through to relinquishment.

**Okane champions the integration of mine closure into mine plans continuing through all phases of mining projects to maximize asset value while achieving positive environmental and social outcomes.**

### What Makes Us Unique

#### We Have Proven Expertise

- ▶ We leverage over **25 years of international experience** in mine closure and waste management to take a full lifecycle, integrated approach to mine planning and closure.

#### We Don't Believe in One-Size-Fits-All

- ▶ We work closely with our clients to develop **innovative, agile solutions** that reflect their values, risk tolerance, and address their biggest challenges.

#### We Work with the Future in Mind

- ▶ We support clients in planning for future land use while **building meaningful relationships** with Indigenous rightsholders and community stakeholders.

### Our Values

#### Driving exceptional outcomes

Our core values are at the center of everything we do at Okane, serving as the guiding principles that drive our company's purpose. Integrating our values into everyday operations and into our workplaces ensures quality experiences for our team and clients.



Passionate



Positive



Humble



Smart & Clever



Thoughtful & Caring

## Our Purpose

### Help Create a Better Tomorrow

Our purpose is to **Help Create a Better Tomorrow**. Our team is passionate about integrating mine closure planning throughout the entire mine lifecycle, leading to mine closure solutions that benefit communities, stakeholders, and Indigenous rightsholders long after mine operations have ended. We help create a better tomorrow by incorporating environmental, social, and governance (ESG) criteria into all our mine closure solutions.

**We develop cost-effective, environmentally responsible designs that have long-term climate change resiliency and the capacity for adaptation to achieve the highest value returning land use for our clients and their stakeholders.**

Our service offerings are designed to help our clients find opportunities throughout the entire mine lifecycle to create positive financial, environmental, and social outcomes post-closure.

## Integrated and Collaborative Mine Closure Planning

The closure of a mine site involves many stakeholders. **All voices must be heard when planning for closure** to facilitate a smooth transition from operations to closure, to rehabilitation and future land uses. Involving stakeholders early in the process and maintaining an open dialogue helps to demonstrate transparency and ensures everyone is aligned with the mine's closure objectives and outcomes.

Our solutions build confidence for stakeholders and regulators. By documenting our engagement and using the Failure Modes and Effects Analysis (FMEA) process as a framework for closure design development, we can demonstrate that a particular approach is an appropriate methodology for a given site.

Okane embraces an interdisciplinary approach, recognizing the invaluable contributions of all stakeholders, rightsholders, and subject matter experts. We are always eager to collaborate on projects with other consultants. Through close collaboration, we leverage diverse expertise and knowledge and seek to codevelop solutions that achieve the best possible outcome.



# Closure Vision and Stakeholder Engagement

There are many different returning and post-mining land use options for a mine site. When determining what a closure vision could look like, we consider adaptable, innovative, and highest value alternatives. These alternatives are developed in collaboration with community stakeholders like land use planners, regional economic developers, and with Indigenous rightsholders.

Achieving a mine's closure vision can be a complex process involving interdisciplinary solutions and multiple stakeholders and rightsholders. One of the greatest challenges mine sites face is translating a closure vision into an actionable execution plan to achieve the returning land use objectives. Successful implementation of an integrated closure plan is dependent on clear alignment and cross-disciplinary collaboration.

## Closure Vision Collaboration and Closure Success Criteria

We believe that there is no one-size-fits-all when it comes to closure vision. Our closure vision process aims to evaluate relevant site-specific conditions and consider all possible closure options to help define the returning land use potential. Some examples of what we might include in a closure vision include:

- ▶ Positive ecological legacy
- ▶ Recreational opportunities for nearby communities
- ▶ Future industrial uses
- ▶ Future agriculture uses
- ▶ Renewable energy opportunities such as wind farms, solar panels, or hydro-electric systems

Our strategy to **achieve alignment on a closure vision** is through the collaborative development of a shared vision for future, post-mining land use. We consider Traditional land use, socio-economic impacts, and the environmental context of the site.

Developing a closure success criteria plan is a multi-stage process that extends throughout the entire mine lifecycle. Some examples of closure objectives we develop could include:

- ▶ Achieving physical and chemical stability
- ▶ Minimizing negative socio-economic impacts from closure
- ▶ Achieving the pre-defined returning land use
- ▶ Minimizing ecological impact in post-closure

To develop detailed success criteria, our team of engineers and scientists prioritize and conduct long-term studies to identify areas of risk and the mitigation plans that should be emphasized in the closure plan.

## Conceptual Closure, Reclamation and Rehabilitation Plans

As experienced mine closure practitioners, Okane develops conceptual closure plans that are aligned with published closure standards and industry best practices. The closure plans we design **consider beneficial returning/post-mining land uses**, exhibit

long-term reliability and adaptability, and are suitable for project planning requirements and permitting. The steps we take to guide conceptual closure planning include:

- ▶ Background reviews and gap assessments
- ▶ Align closure vision and success criteria with returning land use objectives
- ▶ Develop conceptual models
- ▶ Conduct risk assessments to prioritize studies for detailed design

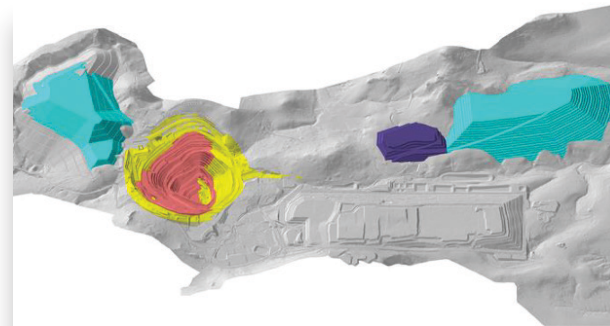
Okane subject matter experts possess technical abilities to serve as members of Independent Tailings Review Boards, and Independent Peer Review Panels. Additionally, Okane is able to provide technical evaluations for investors as part of due diligence reviews, particularly in assessing residual closure liabilities.



# Integrated Life of Mine Planning: Tailings and Mine Rock

At Okane, we provide comprehensive mine planning solutions throughout the entire mining lifecycle. We work closely with clients to develop advanced designs at the strategic level and translate them into practical plans that optimize project value and environmental outcomes. We support our clients in evaluating the financial and environmental benefits of planning present-day operations to better manage for long-term closure.

Okane prioritizes efficiency in our plans for tailings and mine rock management. We integrate geochemical, geotechnical, and operational factors to optimize waste management and ensure long-term geochemical and geotechnical stability.



## Strategic and Tactical Mine Planning and Scheduling

Okane's interdisciplinary teams include experienced mine planners to develop and implement fully integrated life of mine and closure plans. We partner with our clients to deliver sophisticated mine planning solutions at the strategic level and translate this work into the tactical space to ensure practical and safe executable mining and material handling to **optimize overall project net present value (NPV)** and improve environmental outcomes.

## Mine Rock (Waste Rock) Pile and Tailings Storage Facility Design

We conduct mine rock and tailings characterization studies to evaluate the potential for acidic conditions and the leaching of metals and other constituents that can be problematic in the closure landscape. These results, in combination with considerations for climate, and physical setting, inform our designs, construction plans, mine sequencing and decision-making frameworks for effective source control management to **reduce liability and environmental risks** during operations and closure.

Our landform design and construction methods prioritize best practices to predict and mitigate water quality risks throughout the facility's lifecycle. Okane helps our clients develop designs that meet geotechnical stability, implement effective erosion control, and achieve varying post-mining land use objectives such as revegetation,

wildlife habitat, and accommodating recreational or industrial uses. Our approach sets realistic expectations for successfully achieving closure objectives and desired outcomes.

Our geotechnical team is experienced in dam safety inspections and reviews that adhere to industry regulations, guidelines and best practices such as the Global Industry Standard on Tailings Management (GISTM) and the International Commission on Large Dams (ICOLD). Our work follows best practices as recommended by the Mining Association of Canada (MAC) Towards Sustainable Mining (TSM) Tailings Management Protocols and the Canadian Dam Association (CDA) Dam Safety Guidelines.





# Closure Plans, Detailed Design and Construction Support

Integrated mine closure planning combines reclamation expertise with strategic mine planning to prevent poor and underfunded closure outcomes. Integrated closure planning helps mine operators incorporate closure directly into the life of mine plan. We take this unique approach to help clients optimize project value throughout the entire mine lifecycle from exploration through to relinquishment, creating a fully integrated life of asset plan.

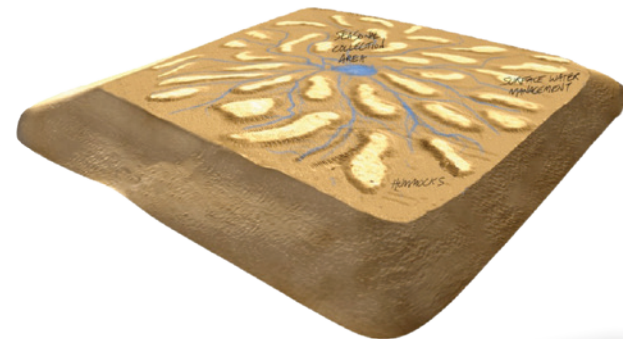
Mine closure and reclamation planning starts with initial mine development planning and evolves with increasing refinements throughout the life of mine. Implementing progressive mine closure activities throughout operations supports adaptive management and informs closure and reclamation cost estimates.

## Detailed Closure Plans

Serving as a roadmap for the entire closure process, a closure plan typically includes a detailed description of closure objectives, intended returning/post-mining land use(s), regulatory compliance measures, risk and impact assessments, and relevant data interpretations. It also encompasses landform design alternatives for site rehabilitation, waste management, and infrastructure removal, along with a clear timeline and cost estimates for financial assurance.

## Closure Cost Estimates

Underestimating closure costs at the outset of the mine lifecycle can significantly impact the value of the mining asset when actual closure expenses start to be realized. In accordance with ISO 21795 standards for mine closure and reclamation planning, Okane aligns closure cost estimates with the cost estimating methodology endorsed by the Association for the Advancement of Cost Engineering (AACE). Using this approach, the level of project definition is applied to determine the expected level of accuracy of an estimate.



## Cover System and Landform Design

Cover systems are an integral design component of a mine closure plan. The main objective of a cover system is to create a safe and sustainable interface between the environment and mine waste. Okane is internationally recognized for our expertise in cover systems and landform design. We have authored the INAP Global Cover System Design Technical Guidance Document and contributed to many guidance documents for Mine Environment Neutral Drainage (MEND). When designing a cover system and executing the water, gas, and energy balance, we must also execute the landform water, gas, and energy balance. Both influence each other and cannot be understood or developed in isolation. Okane has developed proprietary numerical modelling tools called MineRock and Tailings Geo Evolution (MIRTAGE) modules to incorporate source control, and geochemical stability into our cover system and landform designs.

## Landform Evolution Modelling

Landform evolution modelling is used to simulate and predict the changes that occur in the physical characteristics of a landform over time. These models are particularly useful in assessing environmental and geological data. Okane's team of expert engineers employs advanced predictive modelling tools, including

SIBERIA, WEPP, and CAESAR, while also conducting observational testing programs for rainfall and materials to further parameterize erosion models. These tools help identify factors that contribute to erosion risks, such as slope length and gradient, rainfall run-off, surface compaction, and surface treatments.

## Construction Support

Okane includes detailed specifications on material requirements and construction methods in our Issued for Construction packages. We also offer construction quality programs and on-site quality assurances for both full-scale facility closure projects and smaller-scale field trials.





# Adaptive Management and Strategic Risk Assessment

Due to the dynamic nature of mining closure, it is important to implement a proactive approach to monitoring and assessing risk. Okane's adaptive management approach allows for flexibility in responding to changing circumstances, uncertainties, and emerging risks during closure. Since closure activities can span many years, external factors such as regulatory changes, market conditions, and technological advancements can significantly influence the closure process. Adaptive management allows for timely adjustments to these evolving conditions, ensuring that closure objectives are met.

Strategic risk assessment involves identifying, analyzing, and prioritizing potential risks and uncertainties that could impact the closure process and its objectives. We help our clients conduct

comprehensive risk assessments from identifying risks to developing mitigation strategies and contingency plans to address identified risks. Our approach helps minimize potential adverse events to the surrounding environment, communities, and stakeholders.

Both adaptive management and strategic risk assessment encourage continuous improvement and learning in mine closure. By systematically monitoring and evaluating closure activities, identifying lessons learned, and incorporating best practices, the closure process can evolve and improve over time.



## Multiple Accounts Analysis and Multiple Criteria Analysis

Evaluating alternative closure strategies requires consideration of a range of impacts on stakeholders. We facilitate multiple accounts analysis (MAA) to assist our clients in the early phases of mine development and closure planning. Our MAA process includes:

- ▶ Developing a wide range of alternatives;
- ▶ Identifying impacts of each alternative;
- ▶ Quantifying the residual risk associated with each alternative after implementation;
- ▶ Completing an economic evaluation of the alternatives; and
- ▶ Identifying the highest-ranked alternative through a robust account and scoring process.

Okane also conducts multi-criteria analysis (MCA) at all major decision-making points in a mine's lifecycle. These analyses illustrate how various design alternatives will impact key outcomes such as cost, but also social and environmental impacts. MCAs help our clients find opportunities to maintain project value and make informed decisions that positively impact the mine's long-term legacy.

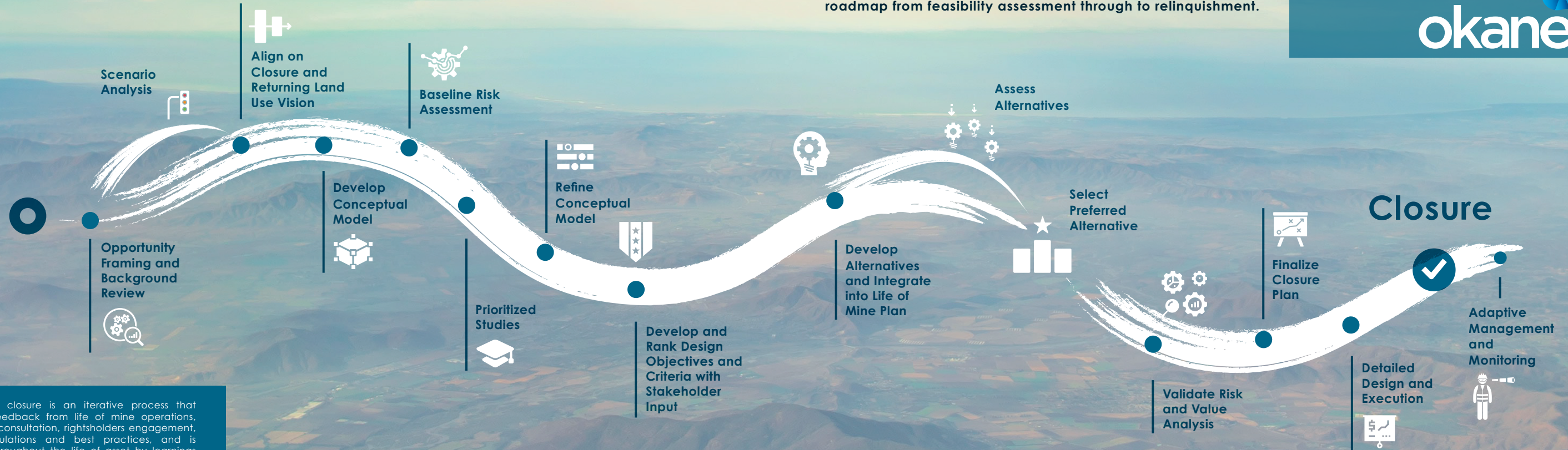
## Failure Modes and Effects Analysis

Failure modes and effects analysis (FMEA) helps with failure identification, risk profiling, and identifying alternatives. We understand the challenges in maintaining project value and the liability our clients face when developing closure designs. Okane specializes in guiding the FMEA process to create sustainable closure designs. With a comprehensive understanding of potential risks, we facilitate workshops involving clients, Indigenous rightsholders, project stakeholders, and regulatory bodies to communicate our findings and recommend alternative strategies.



# Okane's Roadmap to Closure

Okane champions the integration of mine closure into mine plans continuing through all phases of mining projects to maximize asset value while achieving positive environmental and social outcomes. Our solutions demonstrate a clear closure roadmap from feasibility assessment through to relinquishment.



Planning for closure is an iterative process that integrates feedback from life of mine operations, stakeholder consultation, rightsholders engagement, industry regulations and best practices, and is informed throughout the life of asset by learnings gained through progressive closure.

## Closure Vision and Stakeholder Engagement

- Conceptual Closure, Reclamation and Rehabilitation Plans
- Closure Vision Collaboration
- Closure Success Criteria
- Community Engagement
- Returning Land Use Objectives and Planning
- Permitting and Regulatory Approvals
- Subject Matter Expert Reviews (Stakeholders and Rightsholders)

## Integrated Life of Mine Planning: Tailings and Mine Rock

- Strategic and Tactical Mine Planning and Scheduling
- Equipment Optimization and Planning for Autonomous Operations
- Geotechnical Assessment and Monitoring
- Dam Safety Inspection and Reviews
- Tailings Characterization and Closure Strategies
- Mine Rock (Waste Rock) Characterization and Pile Design

## Closure Plans, Detailed Design and Construction Support

- Detailed Closure Plans
- Closure Cost Estimates
- Cover System and Landform Design
- Landform Evolution Modelling
- Borrow Material Characterization and Management Plans
- Construction Specifications and QA/QC

## Adaptive Management and Strategic Risk Assessment

- Trigger and Action Response Plans
- Adaptive Management Plans
- Failure Modes and Effects Analysis (FMEA)
- Cost-Benefit Analysis (CBA) and Value Driver Tree Analysis (VDT)
- Multiple Accounts Analysis (MAA) and Multi-Criteria Analysis (MCA)

## Environmental Geochemistry

- Acid Rock and Metalliferous Drainage Management
- Material Characterization
- Suboxic Conditions Analysis
- Kinetic Testing and Advanced Customizable Leach Columns
- Source Term, Solute Transport, Water Quality Modelling
- Laboratory Services Management

## Water Stewardship

- Climate Change Scenario Modelling
- Integrated Surface Water and Groundwater Modelling
- Pit Lake Management
- Surface Water Management
- Hydrology and Hydrogeology
- Water Quality Monitoring

## Rehabilitation and Reclamation

- Ecological Completion Criteria
- Revegetation Planning
- Vegetation and Wetland Monitoring and Assessment
- Flora and Fauna Survey and Reporting
- Soil Management and Remediation

## Environmental Monitoring and Advanced Data Management

- Design and Installation of Field Trials and Automated Monitoring Systems
- Instrumentation Procurement and Calibration
- Advanced Data Management and Interpretation



## Environmental Geochemistry

Geochemistry plays a significant role throughout the life of a mining operation. During the exploration and resource evaluation phase, geochemical surveys and analysis are employed to identify anomalous geochemical signatures that indicate the potential presence of valuable minerals. By analyzing the chemical composition of rocks and minerals, geochemists provide insights into the quantity, quality, and economic viability of mineral resources.

In mine planning and closure, applied geochemistry is critical to predicting the chemical stability of mining areas and landforms, and resulting impacts to hydrogeochemistry. By leveraging the knowledge and techniques of geochemistry, mining companies can minimize environmental impacts, ensure regulatory compliance, and enable sustainable mining designs that prioritize source control.

## Acid Rock and Metalliferous Drainage Management

Okane provides environmental and mine site geochemistry solutions throughout the asset's life. We conduct material characterization to understand the materials that need to be managed for acid and metalliferous drainage/acid rock drainage (AMD/ARD) and develop management plans that assist our clients in managing their AMD risks effectively from early feasibility and permitting stages through to construction and operations, and into mine closure. We also leverage on-site stockpiled material to determine candidate materials available for reclamation during mine closure.

## Laboratory Services and Management

Okane offers specialized laboratory management services for geochemical, geological, and geophysical testing and management. Okane has also developed state-of-the-art advanced customizable leach columns (ACLCs) to simulate precise on-site scenarios within our laboratory settings. Our ACLC programs specifically allow us to simulate the inner workings of mine rock stockpile and tailings management facilities. Our ACLC programs specifically allow us to simulate the inner workings of mine rock stockpile and tailings management facilities.

## Source Term, Solute Transport and Suboxic Conditions Modelling

Okane specializes in developing geochemical source terms from mine domains such as mine rock stockpiles, tailings management facilities, and pit walls to ensure that comprehensive water quality and water balance models can account for and mitigate potential environmental impacts from these domains. We use numerical models to evaluate the long-term performance of suboxic designs, accounting for material variability and climate change.

Okane has geochemical modelling and numerical modelling teams with the expertise to solve for both geochemical reactions and transport of contaminants for mine storage facilities. We employ sophisticated geochemical and reactive transport models, like PHREEQC and MIN3P, to comprehensively analyze complex geochemical interactions that take place within gas, water, and solid phases.



# Water Stewardship

Water stewardship is a key area of focus for the mining industry, and sustainable water management practices need to be incorporated into designs at all phases of the mine lifecycle. Okane follows a catchment-based approach to water management, designing landforms that minimize contact water and maximize source control. We apply our expertise in site-specific climate change risk assessment to develop integrated surface water and groundwater models, so that the water management strategies we recommend address potential multigenerational risk and long-term adaptive management.

## Climate Change Scenario Modelling

To conceptualize climate and climate change conditions, Okane leverages tools like the Köppen-Geiger climate classification system and general circulation models (GCM) to help us gain a comprehensive understanding of regional climate conditions. We use a statistical downscaling approach to develop site-specific climate databases. Instead of using average historical data, we consider the probability and consequences of various climate change scenarios to acknowledge the variability and complexity of climate patterns, ensuring our designs are resilient.

When creating climate models, Okane uses climate databases with the longest available historical records, spanning at least 100 years. This helps us integrate climate change resiliency into our designs and provides our clients with a profound understanding of how climate change will influence the performance of their mine landforms for the future's evolving climate dynamics.

## Integrated Surface Water and Groundwater Management

Integrated surface water and groundwater modelling evaluates and forecasts the impact of mining activity on the comprehensive water ecosystem. These models facilitate the prediction of groundwater flow, surface water patterns, contaminant movement, and the development of a comprehensive site-wide mine water balance. Our modelling team employs trusted industry software packages, like the GeoStudio suite and Goldsim, to develop comprehensive site-wide water and load balances.

Recognizing the significant costs of water management, including discharge and effluent treatment, throughout

and beyond mine operations, our innovative cover system and landform designs are not only responsive to climate risks but also strategically engineered to minimize the volume of contact water, reducing the long-term burden of collection and treatment. We leverage potential mine site assets like pit lakes, natural wetland areas, or saturated rock fills to manage water quality and quantity in consideration of the assimilative capacity of the surrounding environment. This approach ensures cost-effective water management and stewardship throughout a mine's lifecycle.





# Rehabilitation and Reclamation

Mine rehabilitation is the endeavour of restoring previously mined landscapes to a condition that is environmentally and ecologically acceptable. Okane specializes in developing practical mine rehabilitation, reclamation, revegetation, and associated monitoring solutions across mine domains including mine rock stockpiles, tailings storage facilities, and heap leach facilities. Our team of experienced ecologists, environmental scientists, and engineers assess soil properties, vegetation communities, and local ecological factors to craft site-specific rehabilitation and revegetation plans that complement surrounding areas.

## Ecological Completion Criteria

We recognize the importance of aligning our reclamation activities with the objectives of returning/post-mining land use. Ecological completion criteria serve as a fundamental benchmark that directs alignment by defining what is rehabilitation success.

When developing ecological completion criteria to assist responsible efforts in rehabilitation, we emphasize on determining the best value returning land use(s) for the site. Okane uses frameworks, including the Western Australian Biodiversity Science Institute's framework to facilitate a comprehensive approach to reclamation. We ensure that site-specific conditions and risk-based assessments are considered before determining and developing an effective reclamation strategy.

## Revegetation Planning

Revegetation planning is a critical aspect to mine closure as it facilitates the transformation of post-mining landscapes into thriving, functional ecosystems. By strategically selecting plant species and cover materials based on comprehensive assessments of land conditions, revegetation planning addresses soil erosion, improves water quality, and minimizes the long-term environmental impacts of mining activities.

Through soil testing, we can analyse the site's soil composition to gain insights into how to improve land quality. From there, we co-develop a recommended plan of action with the stakeholders, local communities, and Indigenous rightsholders to integrate their expertise of the area into the revegetation plans. We prioritize in establishing self-sustaining and long-lasting ecosystems that are natural to the local region, as part of our commitment to land stewardship for future generations.





# Environmental Monitoring and Advanced Data Management

Okane designs, installs, and manages field trials and monitoring programs across environmental and mining applications for our clients globally. Our monitoring solutions are designed to evaluate the performance and stability of cover systems, landform designs, mine rock stockpiles, heap leach facilities and tailing storage facilities. We also conduct rehabilitation, vegetation, groundwater, and surface water monitoring. We interpret field data from these systems to verify regulatory compliance, achieve site closure objectives, and demonstrate overall rehabilitation success.

## Advanced Data Management and Interpretation

We specialize in handling extensive data from diverse environmental monitoring programs. Okane's Advanced Data Management provides an integrated and quality-controlled environmental monitoring database for accurate analysis and reporting, such as weather, soil moisture and temperature, water flow and quality. All data collected from remote monitoring systems undergoes robust quality review procedures and is organized at the site level with customizable reports available on demand through a secure web browser.

## Instrumentation Procurement and Calibration

We supply and install a range of instruments, including in-situ and meteorological equipment. Okane has the capability to calibrate instruments in-house, customize installation techniques for optimal data acquisition, and regularly conduct performance monitoring and maintenance.

We can procure a wide range of instruments, including meteorological sensors, surface water monitors, in-situ sensors for pressure, temperature, and moisture, as well as data acquisition tools like dataloggers and remote power supply systems. Our access to systems such as the Diviner 2000 and EnviroScan from Sentek further enhances our ability to monitor and manage water-related aspects effectively.

Okane is an approved distributor for the following instrumentation:

- ▶ Campbell Scientific Canada
- ▶ Campbell Scientific Inc. of Logan, UT, USA
- ▶ Sentek Sensor Technologies





## Indigenous Relations

**We honour and recognize the wisdom of Elders who have stewarded these lands for generations, and we extend our respect to the global Indigenous communities both past and present.**

In countries across the world, Indigenous communities are at the forefront of mining impacts. Many of us at Okane have deeply benefited from Indigenous culture through the sharing of Traditional Knowledge and its incorporation into mine closure and reclamation plans and designs. We recognize the importance of continuing this learning and are committed to taking active steps to achieve our goal of increasing collaboration with Indigenous Peoples. Okane's purpose is to Help Create a Better Tomorrow, and we believe that partnership and collaboration with Indigenous rightsholders is a requirement to achieving our purpose.

We have adopted the learnings and strategies outlined in the United Nations Declaration on the Rights of Indigenous Peoples as a framework for collaboration between the Okane team, our clients, and Indigenous rightsholders and communities.

As a leader in mine closure consulting, Okane is committed to achieving collective ownership of closure plans and returning land uses that can be celebrated by all. We are thankful for those who share knowledge and resources with us so that we can learn and build a better future together.



## Diversity, Equity, and Inclusion

Okane is committed to fostering, cultivating, and preserving a culture of diversity, equity, and inclusion. We believe that a diverse and engaged workforce contributes to our company's purpose to help create a better tomorrow.

We promote and seek to provide an inclusive and supportive working environment that recognizes and celebrates all the ways we are different. Our commitment is to foster a workplace where everyone feels comfortable and safe bringing their whole selves to work and where employees are inspired to passionately share their wide range of talent and knowledge.





# Our Operations



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