An aerial photograph of the Canadian Malartic Mine processing plant. The plant consists of several large, white industrial buildings with flat roofs. In the foreground, there is a large, calm body of water, likely a tailings pond, with some green vegetation growing in the shallows. A paved road curves through the landscape, and a large parking lot filled with cars is visible near the plant. The background shows rolling hills under a clear sky.

Our Story Continues

**2018
SUSTAINABILITY
REPORT**

**CANADIAN
MALARTIC
MINE**

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About This Report

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Canadian Malartic Mine (CMM) presents *Our Story Continues*, its sustainability report for the period extending from January 1 to December 31, 2018.

CMM has produced this annual report since Agnico Eagle Mines Limited and Yamana Gold Inc. acquired the mine in June 2014.

By publishing this report, CMM commits to regularly update its stakeholders on its projects, activities and achievements aimed at advancing sustainability throughout the company.

WE LOOK FORWARD TO HEARING FROM YOU:

Help us improve our Sustainability Report or our social, economic and environmental performance practices by sending us your ideas, questions or comments to info@canadianmalartic.com.

INTEGRITY AND TRANSPARENCY

The CMM team is responsible for preparing the 2018 Sustainability Report and ensuring the integrity of the information it contains. CMM would like to sincerely thank everyone who contributed to this document.

The team believes that this information is a true reflection of its initiatives and its sustainability and social responsibility performance over the past year.

Company authorities responsible for sustainable development and social responsibility verified the content of this report.

NOTE:

The *Extractive Sector Transparency Measures Act* (ESTMA) introduces new reporting and transparency obligations for the Canadian extractive sector and contributes to global efforts against corruption in the sector. CMM complies with these requirements of the Government of Canada. ESTMA reports are available at: <https://www.nrcan.gc.ca/our-natural-resources/minerals-and-mining/mining-resources/extractive-sector-transparency-measures-act/links-estma-reports/18198>.



“ ALTHOUGH WE FACE NUMEROUS CHALLENGES, OUR FOUNDATION IS ROCK SOLID. ”

A Note from Management

G4-1

We are proud to look back at a very successful year. A year when gold production at Canadian Malartic Mine was at its highest since operations started in 2011 and during which we poured our 4 millionth ounce of gold. More than 1,800 full-time employees worked at the site in 2018 and together we remained focused on health and safety, environmental requirements, meeting our commitments to the community, and mining operations.

This was made possible by the constant and collective efforts of motivated teams that follow the three steps that define our actions each and every day:

- 1 | Is it **safe** for employees?
- 2 | Does it **respect the environment** and the **community**?
- 3 | Once the first two steps have been confirmed, operations may **proceed**.

These three steps allow us to prosper and position ourselves as an employer of choice and a major economic driver in Abitibi-Témiscamingue. These steps also ensure that each and every worker gets home safe, every day.

Noise, air quality and water quality standards were fully met over the past year. We are particularly proud to have ended 2018 with a perfect score for air quality, and that is, 1,333 days in a row; and our efforts along these lines continue.

While we face numerous challenges, our foundation is rock solid, enabling us to post our second-best occupational health and safety performance ever.

Traffic at our Community Relations Office has grown significantly in 2018. This direct contact with the citizens of Malartic provides for ongoing dialogue, and we would like to continue this special relationship, especially during work on the Malartic Extension Project.



These are but a few examples that motivate us every day to do things right and to push ourselves. These three steps that define our actions are a golden rule for all employees working on our site. It was true in the past, is still true today and will be true until the very last day of operations. That is how our story continues.

Happy reading!

Serge Blais, Eng.
General Manager

Sustainable Development

HIGHLIGHTS



EXPENDITURES TOP \$442 M IN ABITIBI-TÉMISCAMINGUE

CMM again confirms its role as a major local and regional economic development player. In 2018, CMM spent more than \$442 M in Abitibi-Témiscamingue and worked with 946 suppliers in the region. Contracts worth \$86.5 M were awarded to suppliers in Malartic (page 26).



IT'S ALL ABOUT INNOVATION

Several teams again employed creativity and innovation to improve employee health and safety as well as the citizens' quality of life. Successes include a new, more efficient and safer rolling warehouse ladder with a hoist attachment. The joint efforts of employees from various teams also led to new planning to reduce the length of traffic obstructions on Highway 117 during the Malartic Extension Project blasting operations (page 37 et 83).



A RECORD OF 500,000 CONSECUTIVE HOURS WITHOUT A LOST-TIME ACCIDENT

Fifteen CMM supervisors along with their teams, were rewarded for achieving between 50,000 to 500,000 consecutive hours of work without a lost-time accident. Supervisor Stéphan Richard and his team reached the 500,000-hour mark, a feat achieved by only one other supervisor in Quebec in 2018 (page 36).



MORE THAN 1,800 FULL-TIME EMPLOYEES

In 2018, no less than 1,800 full-time employees worked on the mine site, which includes nearly 760 CMM employees and more than 1,100 contractor employees (page 39).

\$1.6 M FOR COMMUNITY INVESTMENT AND RESEARCH AND DEVELOPMENT

In 2018, CMM invested in several areas, such as training, education, health, culture and sports. It also helped provide funding for research projects aimed at restoring its tailings pond, among other things (page 75).



YEAR 1 OF THE COMITÉ D'ÉCHANGES ET DE SUIVI CANADIEN MALARTIC

The Comité d'échanges et de suivi Canadian Malartic (CES-CM) pilot project, established in the fall of 2017, continued in 2018. The CES-CM met seven times throughout the year, and its members learned more about mining operations and the main good neighbourliness issues (page 69).



\$2.2 M PAID OUT TO MALARTIC RESIDENTS

In 2017, ninety per cent of Malartic's population took part in the Financial Compensation Program outlined in the Good Neighbour Guide. A total of \$2.2 M was paid out to Malartic citizens in 2018 (page 71).



ENVIRONMENTAL COMPLIANCE

In 2018, CMM fully complied with Quebec standards governing air quality*, water quality and noise. Furthermore, compliance with blasting standards was 99.6% (page 47).



ENVIRONMENTAL CHALLENGE

As a result of heavy fall precipitation, action was taken at the site to lower the water level of the Southeast Basin, which collects tailings pond runoff, and to prevent it from overflowing. The quality of water discharged into the environment consistently met environmental standards (page 54).



Canadian Malartic Partnership

The open-pit mine and the processing plant, built by Osisko Mining Corporation, went into commercial production in May 2011. In June 2014, Agnico Eagle Mines Limited and Yamana Gold Inc. acquired Osisko and formed Canadian Malartic Partnership to manage and operate the mine.

VISION

Canadian Malartic Partnership's vision is to build a strong organization with a business strategy that offers employees a workplace of choice, contributes to the host community's well-being and social development and generates superior, long-term yields for our shareholders.

PRINCIPLES

Our priorities are to ensure employee safety, engage in respectful dialogue and work with the communities where we operate, while respecting the environment and adopting best practices.

We strive to create value for our shareholders and our partners while contributing to the prosperity of our employees and our host communities.

Sustainable Development Policy

Operating in a sustainable manner is an integral part of Canadian Malartic GP's (the "**Partnership**") business strategy. We strive to create value for our shareholders and partners while contributing to the prosperity of our employees and our host communities. We believe that through on going dialogue with our employees and stakeholders, a commitment to legislative compliance and a strong focus on continuous performance improvement, we will obtain and maintain our social license to operate and ensure the sustainability of our activities. This sustainable development vision is part of our core values. It is implemented through the application of a management system for health and safety, the environment, as well as for relations with our employees and host communities. Our vision thus translates into the following commitments:

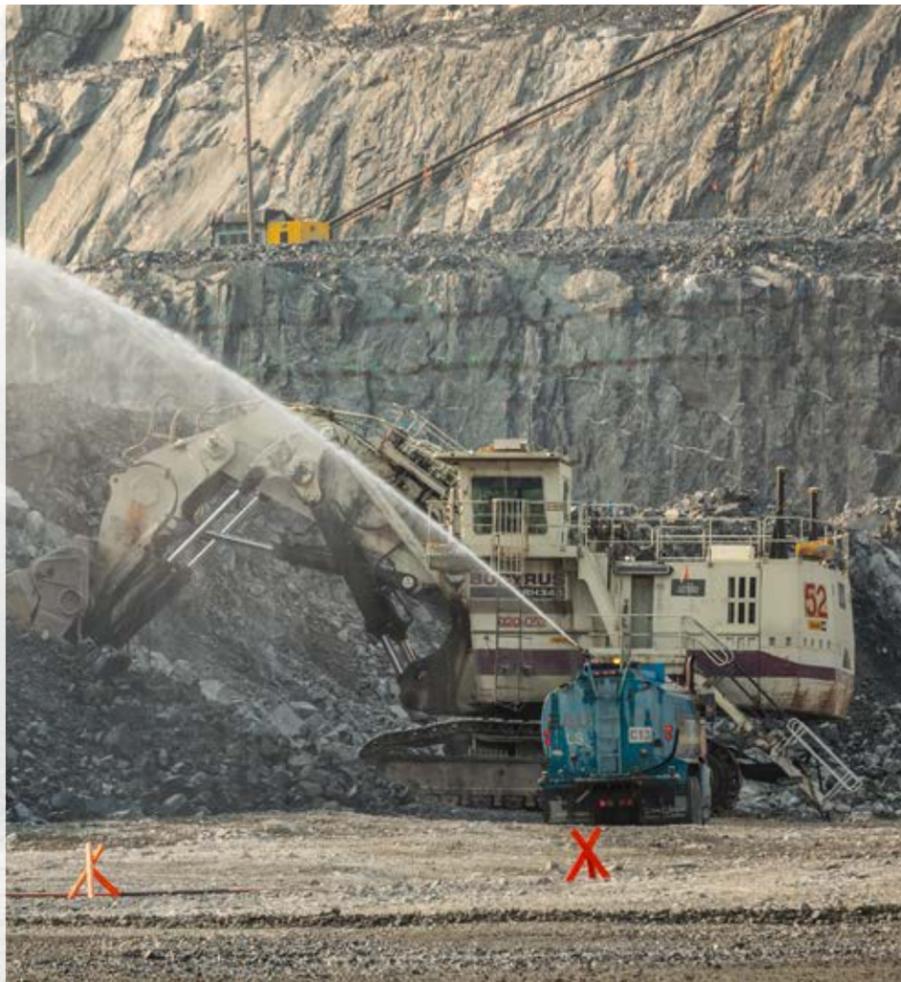
1. HEALTH AND SAFETY

We are committed to creating and operating a safe and healthy workplace by:

- a) Assessing risk on a regular basis and investigating incidents, when necessary, in order to identify and minimize hazardous conditions and ensure that appropriate controls are in place;
- b) Maintaining adequate control measures, as well as recognizing that injuries, professional illnesses and fatalities can be prevented and that relevant control measures are the joint responsibility of the Partnership, employees, contractors and suppliers;
- c) Promoting health and wellness and establishing relevant programs;
- d) Providing appropriate health and safety training to employees and contractors;
- e) Providing adequate resources and appropriate tools so employees can carry out their work safely and efficiently;
- f) Using sound engineering principles in the design and operation of our facilities;
- g) Ensuring that effective occupational health and industrial hygiene programs are in place;
- h) Ensuring that emergency response plans are in place to manage the effects of unforeseen events; and
- i) Performing internal and external safety audits to evaluate performance and establish improvement plans.

CMM RANKS 17TH AMONG CANADA'S MOST RESPONSIBLE CORPORATE LEADERS

On April 19, 2018, Toronto's *Corporate Knights* magazine released the results for the 2018 Future 40 Responsible Corporate Leaders in Canada ranking. The ranking recognizes sustainability leaders as regards transparency and good practices. CMM ranked 17th.



2. ENVIRONMENT

We are committed to minimizing the effects of our operations on the environment and maintaining its viability and diversity for future generations by:

- a) Making efficient use of natural resources;
- b) Implementing measures to reduce the footprint of our activities and emissions;
- c) Implementing measures to reduce greenhouse gas emissions and combat climate change, as well as using energy efficiently;
- d) Managing tailings, waste rock and overburden to ensure environmental protection;
- e) Integrating biodiversity conservation and land use planning considerations through out all stages of business and production activities;
- f) Assessing risk on a regular basis and investigating incidents, when necessary, in order to reduce potential impacts on the environment;
- g) Performing internal and external environmental audits in order to evaluate performance and establish improvement plans;
- h) Ensuring emergency response plans are in place to reduce the impacts of unforeseen events; and
- i) Rehabilitating our mining sites in consultation with the communities to ensure physical and chemical stability and, where possible, through progressive rehabilitation.

3. EMPLOYEES AND COMMUNITIES

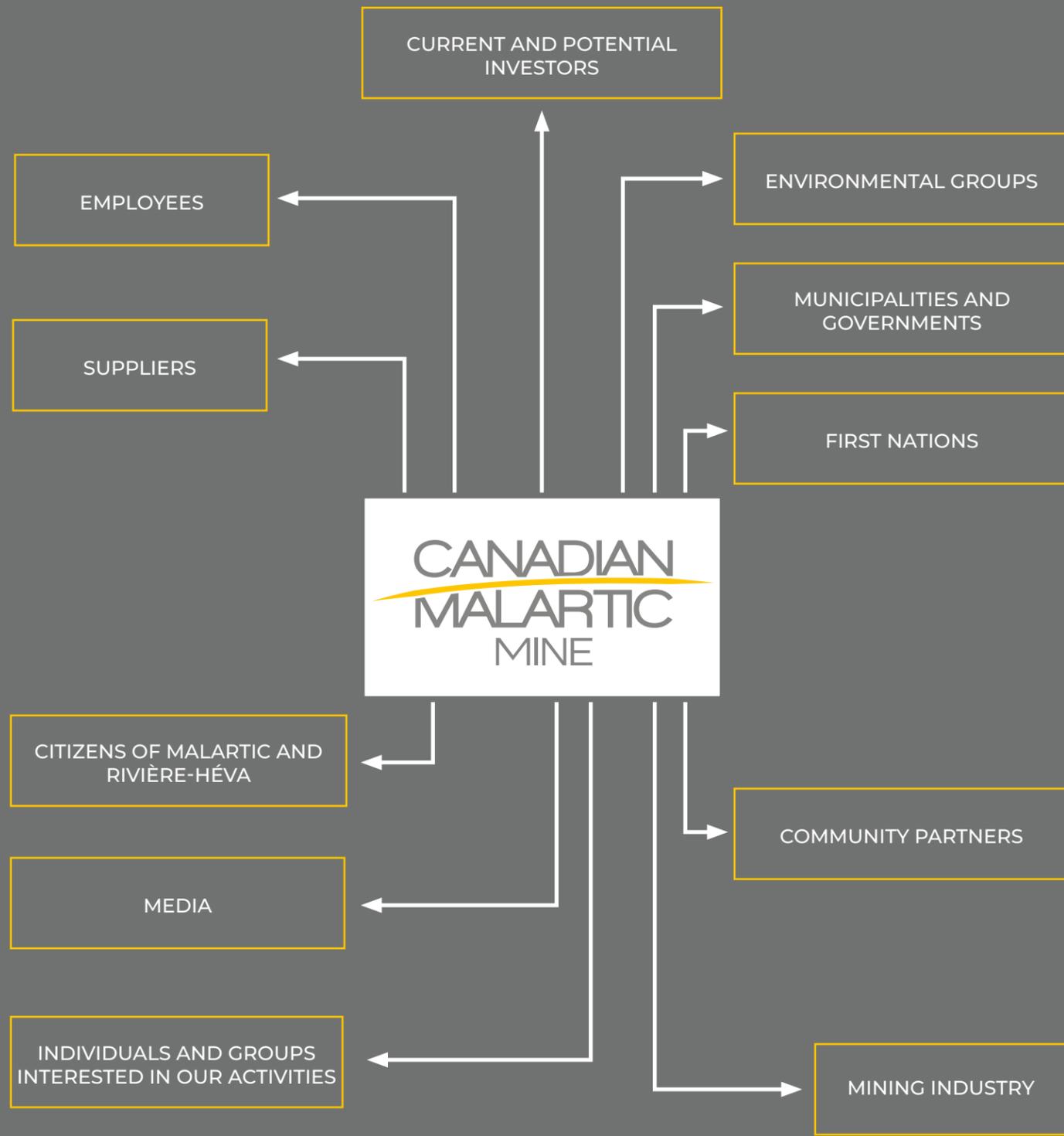
We are committed to contributing, socially and economically, to the sustainable development of the communities where we operate and to maintaining fair and respectful relationships with our employees and host communities by:

- a) Fostering an open, transparent and respectful dialogue with employees and host communities;
- b) Providing fair and competitive working conditions and supporting skills development;
- c) Treating our employees and partners fairly and providing equal opportunities at all levels of the organization without bias;
- d) Ensuring that no discriminatory conduct is tolerated in the workplace;
- e) Implementing a fair and non-discriminatory dispute settlement mechanism for our employees and host communities;
- f) Enforcing a drug and alcohol-free workplace;
- g) Building long-term relationships with our host communities;
- h) Contributing to the economic development of our host communities by creating jobs and promoting local purchases;
- i) Contributing to the socio-economic development of our host communities by investing in local community initiatives and in projects contributing to their long-term socio-economic viability;
- j) Upholding fundamental human rights and respecting the cultures, customs and values of all those affected by our activities; and
- k) Working jointly with Native people to establish a mutually beneficial, cooperative and productive relationship based on an approach characterized by effective two-way communication, consultation and partnering.



Stakeholders

This report is for all of CMM's stakeholders. It provides an annual snapshot of our activities and is also a reference tool of choice.



Sustainability Report Development Process

OUR INSPIRATION: THE SUSTAINABILITY REPORTING RECOMMENDATIONS SET FORTH IN THE GLOBAL REPORTING INITIATIVE

This document is partially based on the *Global Reporting Initiative's* (GRI) indicators used to report on the three main pillars of sustainable development (environmental, social and economic) as well as on general information that enables each company to address specific points of its activities.

Selected GRI indicators are referenced throughout this report. However, this report is not intended to comply with the full GRI reporting process, as it contains only 50 of the 150 reporting indicators.

The various codes reference the G4 Guidelines and the indicator number and title.

CODE EXAMPLE: G4-9 SCALE OF THE ORGANIZATION

The GRI, a non-government organization (NGO), was established in 1997 to develop indicators to measure companies' progress towards sustainable development. Its roots lie in the Coalition for Environmentally Responsible Economies (CERES) and the United Nations Environment Program (UNEP).

GRI's reporting recommendations were the first to be developed for sustainable development and are now the most recognized globally: of the world's 250 largest corporations, 93% use GRI recommendations to report on their sustainability performance.

OUR METHODOLOGY – G4-48

1. Select the most relevant GRI indicators
2. Gather sustainable development data from CMM's various teams
3. Analyze the data
4. Draft the report
5. Validate with the teams involved
6. Validate with by managerial teams

TOWARDS SUSTAINABLE MINING

In 2016, CMM committed to the Towards Sustainable Mining (TSM) initiative, a Mining Association of Canada (MAC) program that the Québec Mining Association (QMA) joined in 2014. It is a set of tools and indicators to drive performance and ensure that mining activities are managed responsibly.

Participation in the TSM initiative shows a commitment to acting responsibly and to adopting social, economic and environmental practices that are aligned with the priorities and values of communities of interest. Seven protocols and their requirements have been incorporated into CMM's activities, and performance is assessed against the performance indicators that make up each protocol.

Indicators Index

2018 Sustainability Report

GOVERNANCE

- G4-7** Nature of ownership and legal form
- G4-34** Governance structure of the organization
- G4-39** Report whether the Chair of the highest governance body is also an executive officer
- G4-48** Highest committee or position that formally reviews and approves the organization's sustainability report

ETHICS AND INTEGRITY

- G4-56** The organization's values, principles, standards and norms of behaviour, such as codes of ethics

MANAGERIAL APPROACH

- G4-SO1** Percentage of operations with implemented local community engagement, impact assessments, and development programs

SOCIAL PERFORMANCE

- G4-LA1** Total number and percentage of new hires
- G4-LA2** Benefits provided to full-time employees
- G4-LA3** Return to work and retention rates after parental leave
- G4-LA5** Percentage of total workforce represented in joint occupational health and safety committees
- G4-LA6** Type and rates of injury, occupational diseases, absenteeism, lost days of work and work-related fatalities
- G4-LA7** Workers with high incidence or high risk of diseases related to their occupation
- G4-LA9** Average hours of training per year
- G4-LA10** Programs for skills management and employee training
- G4-LA11** Percentage of employees receiving regular performance and career development reviews
- G4-LA12** Composition of governance bodies and breakdown of employees per employee category

ENVIRONMENTAL PERFORMANCE

- G4-EN1** Materials consumed
- G4-EN8** Total withdrawal by source
- G4-EN10** Percentage and total volume of water recycled and reused
- G4-EN15** Direct greenhouse gas emissions
- G4-EN16** Energy indirect greenhouse gas emissions
- G4-EN22** Total water discharge by type and destination
- G4-EN23** Total weight of waste by type and disposal method
- G4-EN24** Total number and volume of significant spills
- G4-EN25** Weight of waste deemed hazardous
- G4-EN31** Total environmental protection expenditures and investments
- G4-EN34** Number of grievances about environmental impacts

ECONOMIC PERFORMANCE

- G4-EC1** Direct economic value generated and distributed
- G4-EC3** Coverage of pension plans
- G4-EC5** Ratios of entry level wage compared to local minimum wage
- G4-EC6** Proportion of senior management hired from the local community
- G4-EC9** Proportion of spending on local suppliers

Economy

Portrait of a Quebec Economic Gem

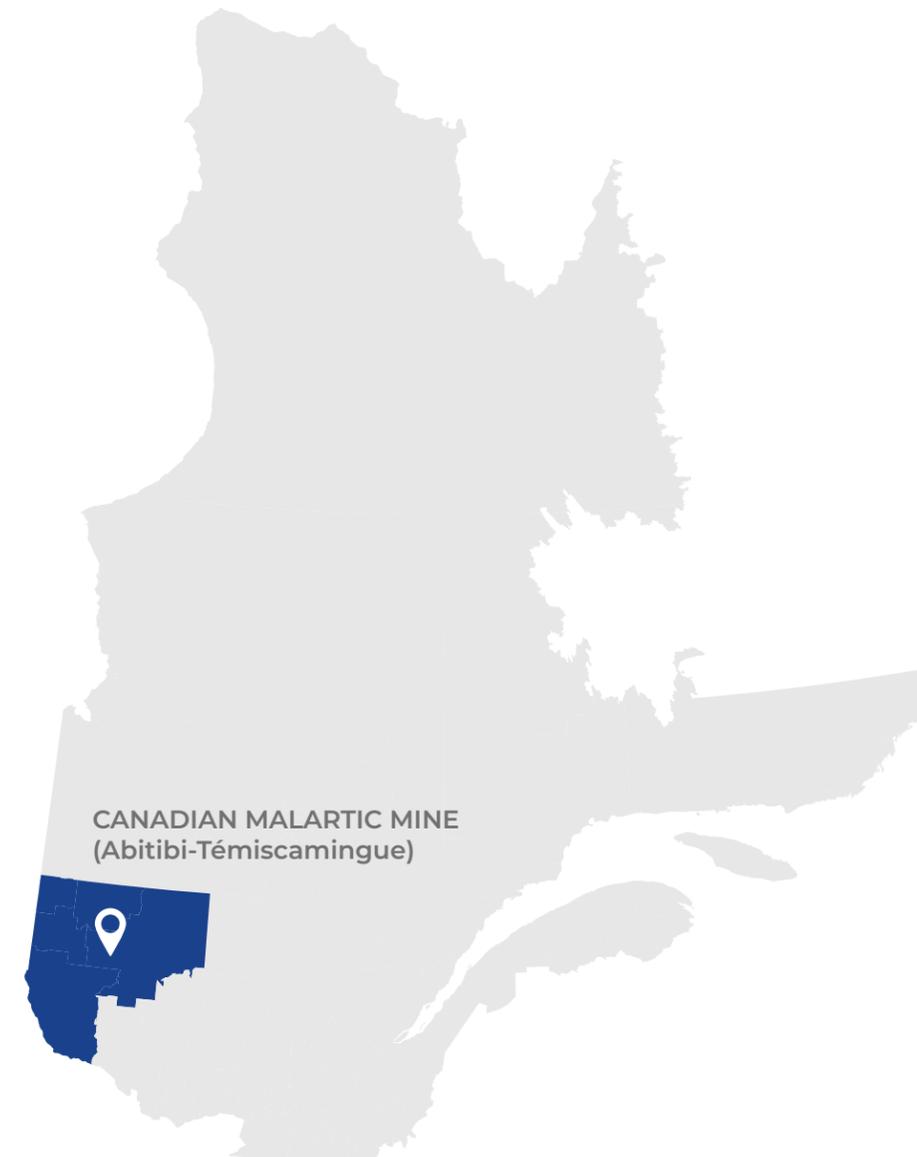
A WORLD-CLASS DEPOSIT ESTIMATED AT NEARLY 10,000,000 OUNCES OF GOLD

Canadian Malartic Mine (CMM) operates one of Canada's largest open-pit gold mines. The Malartic Extension Project will see operations continue until 2027.

PRODUCTION STEPPED UP IN 2018

CMM gold production advanced 10% in 2018 over the previous year, while the number of tonnes of ore extracted remained more or less unchanged.

- 20.5 M tonnes of ore extracted; and
- 697,200 ounces of gold produced.



FROM EARLY MINES TO A TOWN: OUR STORY CONTINUES

Canadian Malartic Mine is located in the Town of Malartic, in the heart of Québec's Abitibi Gold Belt. The property includes four former gold mines that were in operation from 1935 to 1983: Canadian Malartic Gold Mines, Sladen Malartic (Barnat Mines), East Malartic and Malartic Gold Fields.

These four mines extracted 5.13 M ounces of gold primarily from Malartic's underground.

MINING COMPLEX AND LARGE-SCALE OPERATIONS

Figure 1 - Malartic Mining Complex



A. CRUSHING ZONE

B. ORE STOCKPILING ZONE

C. ORE PROCESSING PLANT

D. TAILINGS POND

E. ADMINISTRATIVE BUILDING AND GARAGE

F. PIT

G. SURFACE WASTE ROCK PILE

Figure 2 - Ore Processing



1. Ore extracted from the pit
2. Primary ore crushing
3. Secondary ore crushing
4. Auxiliary dumping site used to feed the conveyor

5. Ore taken by conveyor belt to the stockpiling zone
6. Ore stack
7. Ore grinding
8. Leaching process

9. Gold extraction process, gold pour and gold bar extracted from mould and cleaned

"I feel honoured to have CMM's complete trust to do gold pours, the final and very important stage of production. It's a privilege to see the result of all the workers' efforts on the site."

— A metallurgical technician,
Processing Plant



2018 FINANCIAL OVERVIEW:

GROWTH CONTINUES G4-EC1

As the largest private sector employer in the Vallée-de-l'Or RCM, CMM has an economic responsibility that takes shape through several development levers that have an impact not only on the mine, but also on Quebec society.

Table 1 - Direct Economic Value Generated and Distributed by Canadian Malartic Mine in 2018

Expenditure Item	Amount
Earnings	\$1,168,579,000
Operating costs	\$716,062,000
Payroll and benefits	\$105,729,000

Table 2 - Payments Made to Governments in 2018 (municipal, provincial and federal)

Expenditure Item	Amount
Mining taxes	\$68,000,000
Payroll taxes (paid by employer)	\$7,351,000
Payroll taxes (paid by employees)	\$30,164,000
Municipal taxes	\$3,345,000



ECONOMIC CONTRIBUTIONS G4-EC5

CMM entry-level wage is \$29.57 for hourly-rated employees and \$24 for managers, while Quebec's minimum wage was \$11.25 on April 30, 2018, and \$12 on December 31, 2018; this represents a ratio just over 2.5.

- Average wage¹ (hourly-rated employees and management employees): \$95,968, or average weekly earnings of \$1,846 (compared to average weekly earnings of \$903.18 in Quebec²).
- For an employee contribution rate of 5%, CMM contributes up to 6% to employee group RRSPs.
- 100% of permanent CMM employees are enrolled in its retirement plan.
- Payroll and benefits: \$105 M.

1 Includes night shift and weekend premiums. Hourly-rated day employees are entitled to a 14% premium, while day and night employees are entitled to an 18% premium.

2 Institut de la statistique du Québec - Rémunération hebdomadaire et horaire des employées, régions administratives et ensemble du Québec, 2014-2018.

GOVERNANCE

G4-7 G4-34 G4-39

Canadian Malartic Mine is a general partnership that is indirectly held by Agnico Eagle Mines Limited and Yamana Gold Inc. Each of these Canadian corporations, which are headquartered in Toronto, control 50% of CMM's shares. CMM's activities are led by an eight-member management committee consisting of four members from each parent company.

For more information regarding financial reports:
Agnico Eagle Mines Limited: www.agnicoeagle.com
Yamana Gold Inc. : www.yamana.com

Figure 3 - Canadian Malartic Mine's Simplified Governance Structure



Major Player in Local Economic Development

LOCAL GOVERNANCE G4-EC6

Quebec Team

The CMM Management Team is a Quebec team through-and-through, and 80% of its members come from the Abitibi-Témiscamingue region.

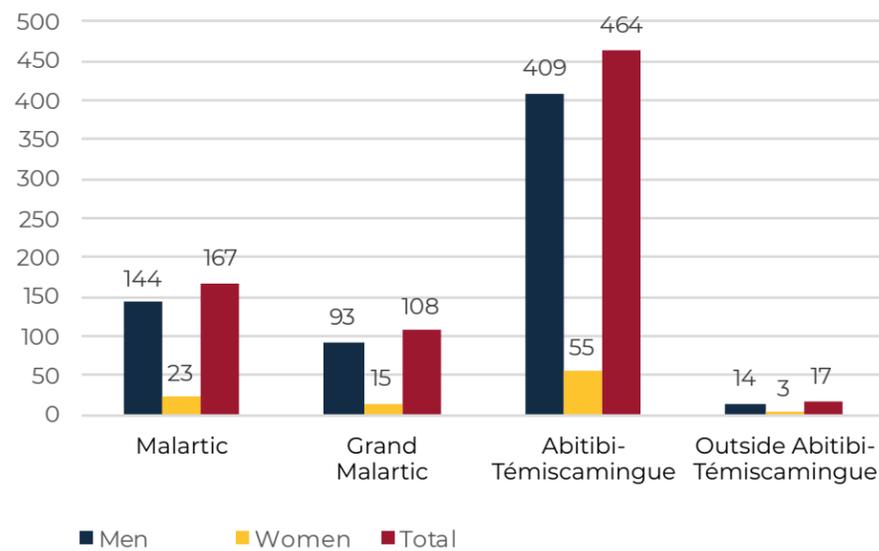
Our Management Team cares about the region's issues and needs and develops management practices to ensure that CMM remains a key partner in local economic development.

A LEADING EMPLOYER G4-LA1

CMM's activities generate major economic spinoffs for Malartic and the Abitibi-Témiscamingue region.

Local and regional employment is one of the main benefits that we hope to maximize. The majority of our employees come from the region, and many live in Malartic.

Figure 4 - Geographical Distribution of Employees by Gender in 2018



96% OF NEW HIRES COME FROM ABITIBI-TÉMISCAMINGUE

In 2018, we continued to implement several measures to encourage our employees to settle in Malartic:

- Reimbursement of accommodation costs between time of hiring and the purchase of a residence in Malartic.
- Support finding housing.
- Reimbursement of moving expenses and notary fees.



CMM RECOGNIZED BY REGIONAL AND QUEBEC BUSINESS COMMUNITIES FOR ITS CONTRIBUTION TO ECONOMIC DEVELOPMENT

The Mercuriades

CMM's team was awarded the Mercure in the Contribution to Economic and Regional Development (Large Business) category at the 38th annual *Mercuriades* gala evening held at the *Palais des congrès de Montréal* on April 19, 2018. CMM was also a finalist in the Sustainable Development Strategy category. The *Mercuriades* is a prestigious competition held by the *Fédération des chambres de commerce du Québec*.



Gala de la Chambre de Commerce de Val-d'Or

CMM's team was the big winner in the Contribution to Economic Development category at the 38th *Gala de la Chambre de Commerce de Val-d'Or* held on April 21, 2018.

In cooperation with various educational establishments, CMM offers internship opportunities to students enrolled in vocational, college or university studies in mining industry related fields. Partners are numerous:

Universities:

- Laval University
- *École de technologie supérieure*
- *Université du Québec en Abitibi-Témiscamingue*
- *Polytechnique Montréal*
- University of Sherbrooke
- University of Montréal
- McGill University

Colleges:

- *Cégep de l'Abitibi-Témiscamingue*
- *Cégep de Thetford*

Vocational Schools:

- *Centre de formation professionnelle Val-d'Or*
- *Centre de formation professionnelle Lac-Abitibi*

CMM not only gives presentations on its operations at various schools, but it also offers summer jobs and internships, particularly to the children of CMM employees. These jobs are an opportunity for students to familiarize themselves with the work environment and develop a network of contacts.

7 presentations and visits at schools and themed fairs.

77 interns in 2018.

Average internship length:

- University: 15 to 16 weeks.
- College: 11 weeks.
- Vocational training: 3 weeks.

62 students were hired in the summer of 2018.

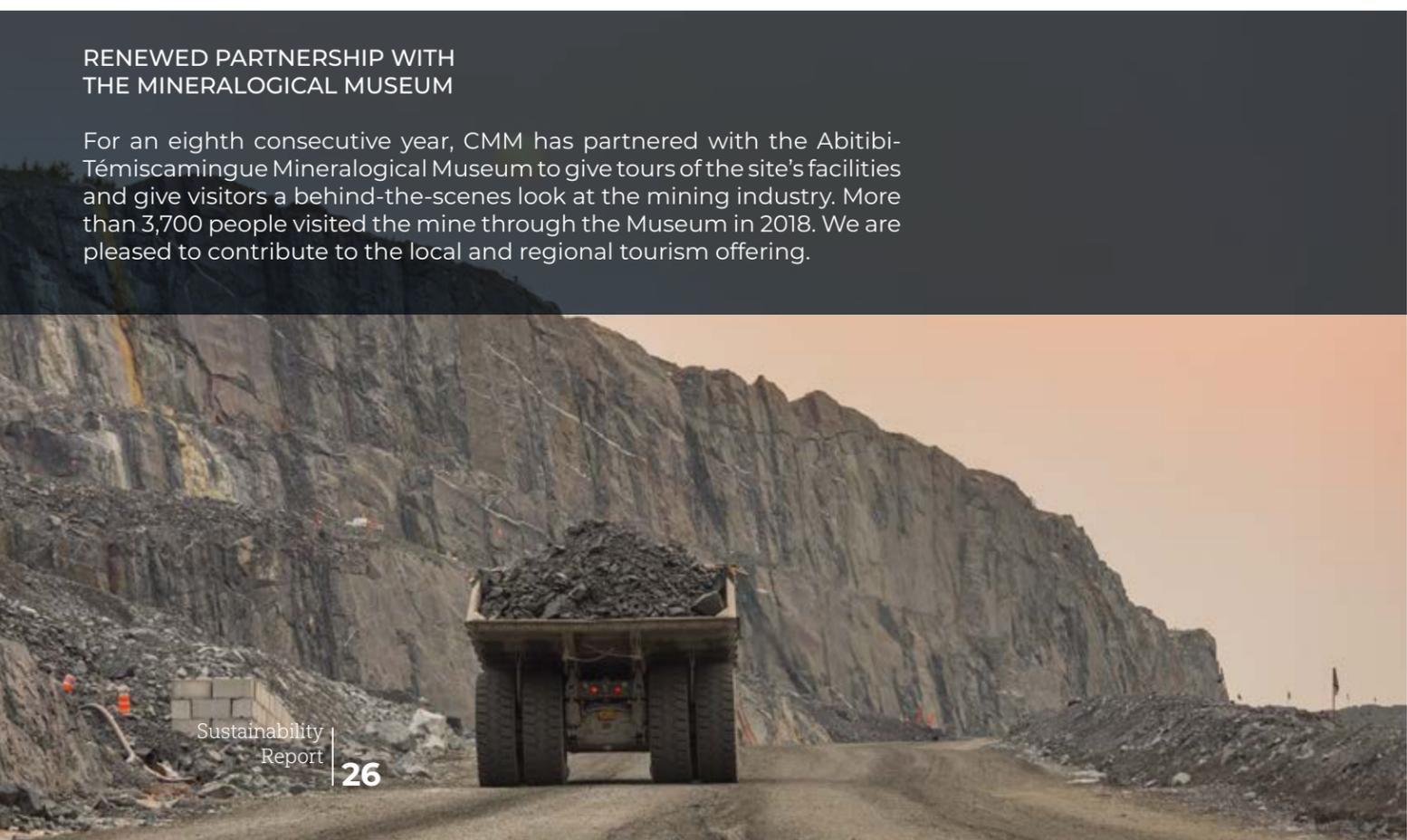
AN INDISPENSABLE BUSINESS PARTNER G4-EC9

We favour suppliers who own a business in the region, provided they are competitive with the market and meet our needs.

- \$442.4 M spent in Abitibi-Témiscamingue.
- 946 suppliers in the region.
- \$86.5 M worth of contracts awarded to Malartic suppliers.
- More than 1,800 people work full-time on the mine site.
- \$68.7 M was invested in the Malartic Extension Project and the deviation of Highway 117 in 2018.

RENEWED PARTNERSHIP WITH THE MINERALOGICAL MUSEUM

For an eighth consecutive year, CMM has partnered with the Abitibi-Témiscamingue Mineralogical Museum to give tours of the site's facilities and give visitors a behind-the-scenes look at the mining industry. More than 3,700 people visited the mine through the Museum in 2018. We are pleased to contribute to the local and regional tourism offering.



INVESTMENTS AND DEVELOPMENT

Table 3 - Community Investment and Research and Development in 2018

Charitable donations, sponsorships, community infrastructure, beautification campaign, support for population services and funding for research and development	\$1,600,000
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Table 4 - Environmental Investment in 2018 G4-EN31

Environmental protection	\$14,744,000
Environmental management	\$22,401,000
Environmental infrastructure	\$16,932,000
Waste management and water purification and treatment	\$9,715,000

Continuous Improvement

For CMM, continuous improvement is a management approach that fosters the adoption of gradual improvements in a daily effort to achieve efficiency and progress. We believe that pooling the creativity of various employees in the organization and aiming for constant progress will create an environment conducive to new concepts and ideas.

Back in 2017, CMM laid the groundwork to formally improve performance by establishing a culture of continuous improvement, implementing various processes and training human resources on new ways of doing things.

In 2018, CMM incorporated a strategic planning process for various continuous improvement projects in three sectors: health and safety, environment and production. The planning was reviewed every three months to ensure it reflected the daily reality and to fine tune it as needed. Projects targeted, for example, reducing equipment breakdowns, increasing productivity and reducing or even completely eliminating oil leaks from production truck differentials.

A dozen or so CMM employees from various departments also received Lean Six Sigma – Green Belt training to improve the quality and effectiveness of project management procedures.

MISA

CMM is also a member of *Groupe MISA*, whose main objectives include helping to ensure the mining industry's vitality and longevity by developing technologies and methodologies. Several member mining companies visited the mine in 2018 and had the opportunity to experience a structured approach to identifying root causes and solving a recurring problem at the mine: frequent rubber skirting failures on Pit Viper drill rigs that prevent the spread of dust. They worked as a team to apply a specific methodology and resolved the rubber skirting issue in just one hour.

Lean Six Sigma training, which is based on a structured management method, improves the quality and effectiveness of a company's processes. During Green Belt training, individuals work on a process improvement project within their organization.



LEXICON

Combined frequency (CF): Occupational health and safety indicator that represents the number of lost-time (LT) and temporary assignment (TA) incidents for each segment of 200,000 hours worked. $LT + TA \times 200,000 / \text{hours worked} = CF$

Temporary assignment: Under section 179 of the *Act respecting industrial accidents and occupational diseases (AIAOD)*, an employer may assign temporary work to a worker who is unable to perform routine tasks or to work their regular schedule due to an industrial accident or occupational disease, until they are again able to carry on their employment or until they become able to carry on a suitable employment.

Health and safety incident, with or without lost time: Recordable incident that includes lost-time accidents, temporary assignments and medical treatment.

First aid: Requires no invasive procedure or medical prescription. Requires basic knowledge only.

Medical treatment: Requires a more complex and invasive procedure and may result in complications requiring specialized personnel (e.g.: nurse, doctor).

Health and Safety

Protecting Worker Health and Safety: A Priority

CMM faced some major health and safety challenges on the mine site during the first quarter of 2018, as combined frequency results had skyrocketed more than 60% over the last quarter of 2017. To address this situation, CMM stepped up awareness activities targeting all its workers and contractor employees. It also took continuous prevention measures. CMM ended the year with its second-best combined frequency performance (1.05) owing to the sustained commitment and effort of all teams.

A PREVENTIVE HEALTH AND SAFETY PROGRAM FOR TEAMS

CMM'S Preventive Health and Safety Program is designed to eliminate or control risks to employees' health, safety and physical well-being at their source. CMM adopted an action plan in 2018 to improve health and safety practices that will continue through 2021.

The objectives of the Preventive Health and Safety Program are to:

- Identify and assess risks.
- Suggest control methods to protect worker health and safety.
- Protect workers exposed to specific risks by setting standards.
- Maintain personal and collective protective equipment.
- Train and inform CMM employees and contractor employees about the risks involved in their work.

STEPS THAT DEFINE OUR ACTIONS G4-56

CMM is committed to enforcing three operating steps that structure the work performed daily by each and every CMM employee and contractor employee on its site.

Figure 5 - Steps that define our actions



1 | Is it **safe** for employees?



2 | Does it **respect** the **environment** and the **community**?



3 | Once the first two steps have been confirmed, operations may **proceed**.

A Program Geared to Awareness and Training

Figure 6 - The Health and Safety Program's Priorities



CMM employee awareness-raising aims to increase employees' knowledge of their health and safety rights and responsibilities.

More official health and safety meetings were held in 2018: 421, all departments combined, up from 381 in 2017.

The goal of raising contractor employee awareness is to familiarize them with our three steps that define our actions and to ensure they comply with laws and CMM'S policies. Awareness-raising is carried out through a specific committee on health and safety issues that brings together CMM contractors every two months.

Just over 2,900 employees received departmental introductory health and safety training at CMM, including mine employees and contractor employees. That number is high compared to CMM employee data and is due, among other things, to contractors' employee turnover rate and by some 1,000 contractor employees assigned to four major annual planned shutdowns at the plant.

Employees, contractor employees and their supervisors make daily equipment and workplace inspections using the "worker logbook". When an employee's logbook includes a note about a given health and safety irregularity, the supervisor ensures that comments are followed up and that the situation is monitored.

Audits are opportunities to assess our health and safety performance and make the necessary improvements. In 2018, the Health and Safety Committee, Supervisors' team and Management conducted more than 545 internal audits, preventive observations and inspections. The Supervisors' team made more than 150 one-time and specific observations.

Site Visits by Management

The Management Team takes part in health and safety inspections that mainly involve site visits in order to better understand employee's work environments and maintain a dialogue. These visits also drive the improvement of practices, in particular as regards establishing relevant standards and procedures, implementing corrective measures and verifying the effectiveness of the measures put in place. General foremen make twelve site visits a year.

Annual Inspection Frequency:

- General Manager, Assistant General Manager and managers: 2
- Superintendents: 4
- General foremen: 12



HONESTY AND COURAGE AWARENESS-RAISING ACTIVITY

Ten meetings that brought together about a hundred CMM and contractor employees were held in 2018 in order to prevent workplace accidents. Concrete simulation exercises took workers out of their comfort zone and heightened their awareness of at-risk behaviours observed or experienced daily and their potential consequences. Based on Frank E. Bird's accident triangle, which explains that as the number of at-risk behaviours increases, so too does the likelihood of major accidents, this training leads employees to make individual commitments to keep themselves and their co-workers safe.

Statistics

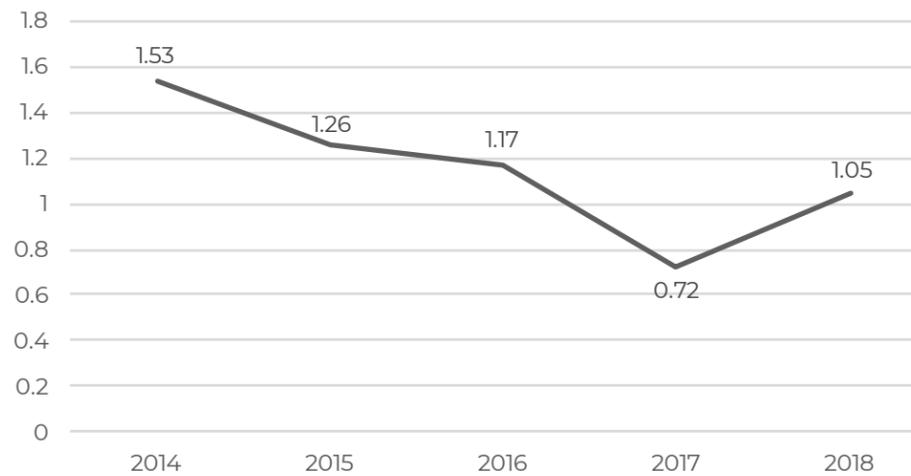
COMBINED FREQUENCY

Combined frequency was up in 2018 compared to the previous year and remains healthy for the second year in a row.

2018 Target: 0.91
Actual Combined Frequency: 1.05

For each 200,000 hours of work, there were 1.05 work incidents resulting in *lost time* or a *temporary assignment* of employees and contractor employees. To provide a point of comparison, the most recent average for open-pit mines in Quebec was 1.1¹ in 2017.

Figure 7 - Change in Occupational Health and Safety Combined Frequency, 2014 to 2018



- A total of 240 incidents were reported in 2018, compared to 176 in 2017.
- There were 20 *lost-time* and *temporary assignment* accidents in 2018, compared to 11 in 2017.

2018 was a year of many increases compared to 2017:

- 36% increase in health and safety incidents.
- 27% increase in the number of hours worked.
- 67% increase in *lost-time* and *temporary assignment* accidents.

1. Association paritaire pour la santé et la sécurité du travail du secteur minier

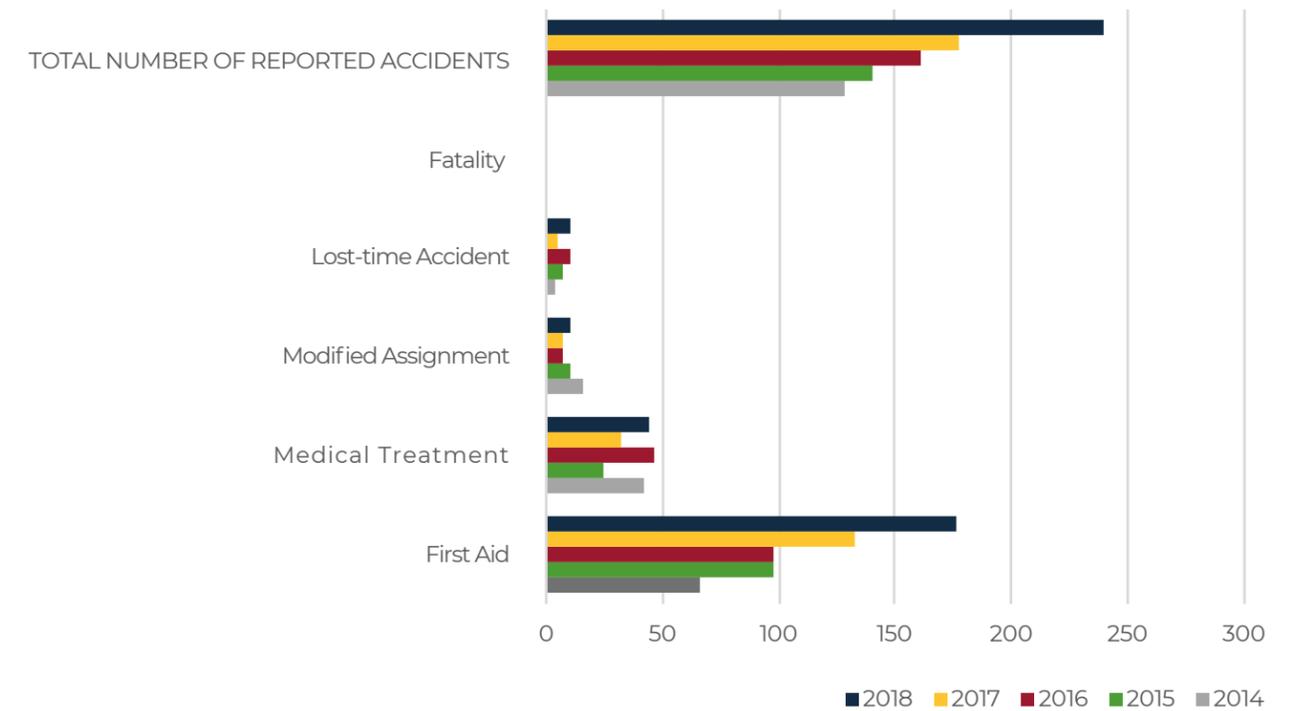
SECOND BEST YEAR
IN A ROW

This result was due primarily to an increase of nearly 800,000 hours worked and to more than 350 additional employees on the site. New employees must be adequately trained and coached. The high contractor employee turnover rate is a challenge for CMM, which must constantly offer onboarding and training to ensure new hires' knowledge base.

ABSENTEEISM AND ILLNESS G4-LA6 G4-LA7

- Number of days off work: 671 days
- Furthermore, no employees were directly or frequently exposed to specific work-related illnesses.

Figure 8 - Change in Health and Safety Incidents, 2014 to 2018



Two Committees Help Mobilize Teams

G4-LA5



HEALTH AND SAFETY COMMITTEE

The Health and Safety Committee brings together workers and management to promote collaboration. It is an amalgamation of employees' practical knowledge, directors' overarching vision and the Company's general procedures. The Committee acts as a consultant to managers, executives and teams and meets ten times a year. Three percent of CMM's employees sit on this committee.

In 2018, contractor employees were included in various mine activities. For example, they were invited to participate in a conference given by former Quebec Nordiques player, Steven Finn, who gave an open and frank account of the benefits of focusing on success by remaining authentic and positive.



COMITÉ SANTÉ ET MIEUX-ÊTRE

The *Comité santé et mieux-être* acts as a change agent by promoting good work-life balance and work environment practices.

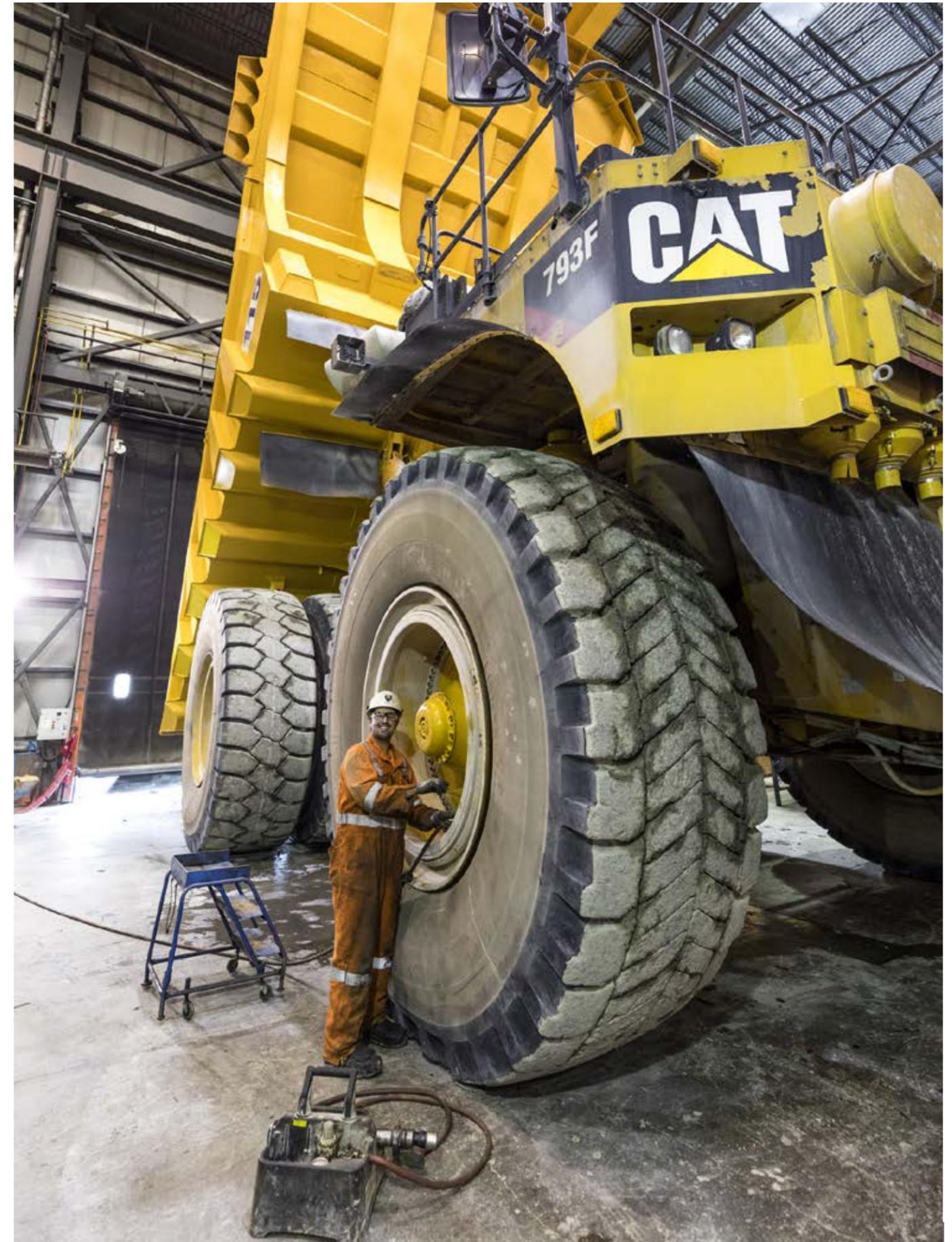
Close to ten employees from various mine departments sit on the committee, which holds activities to encourage healthy living by inviting employees to partake in activities or team nutritional challenges.

In November, the committee also invited CMM and contractor employees to a conference with actor Sylvain Martel, who talked about his alcohol and drug addiction issues and how he became a responsible person.



INITIATIVES PRESENTED AT A HEALTH AND SAFETY PANEL

Stéphane Tardif, CMM Health and Safety Superintendent, presented the *Comité santé et mieux-être* initiatives at a Health and Safety Panel jointly held by the Abitibi-Témiscamingue Table on Health and Safety, in collaboration with the *Université du Québec en Abitibi-Témiscamingue* (UQAT). He stressed the importance of creating a committee whose members come from several sectors in the organization and being able to count on corporate will to promote physical activity and healthy living. He also emphasized the importance of "me time" to promote accountability for health and well-being.



Health and Safety Successes

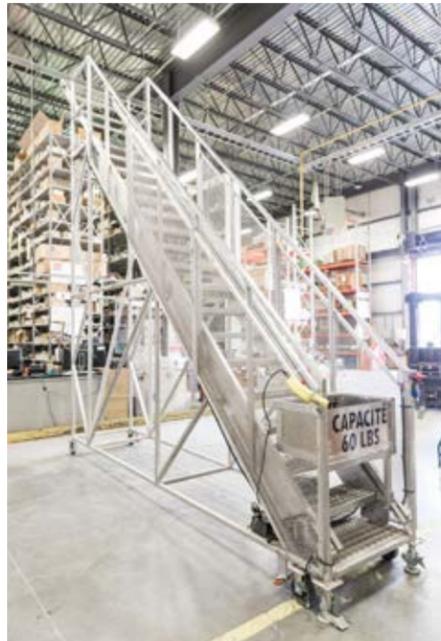
NO-TIME-LOSS INJURIES: RECORDS REACHED BY 15 SUPERVISORS

The Québec Mining Association's 54th annual Health and Safety Symposium, held in Rouyn-Noranda on September 18, 2018, recognized CMM supervisors' efforts and those of their teams to achieve between 50,000 and 500,000 consecutive hours without a lost-time accident. Fifteen employees were honoured at the symposium, and eight of them had worked more than 150,000 consecutive hours without a lost-time accident. One supervisor, Stéphan Richard, reached the 500,000-hour mark, a feat achieved by only two other supervisors in Quebec in 2018.



HEALTH AND SAFETY INNOVATION: NEW ROLLING WAREHOUSE LADDER WITH A HOIST ATTACHMENT

CMM won the CNESST Health and Safety Grand Prize in the Innovation – Large Business category at the 30th Abitibi-Témiscamingue Health and Safety Symposium held in Rouyn-Noranda on October 23 and 24, 2018. The winning project involved designing and implementing a rolling warehouse ladder to reduce the risk of falls for warehouse workers. The new ladder, which features a hoist to lift materials to be stored at heights, makes employees' work safer and more efficient.



OUR EMPLOYEES' INGENUITY

FROM BOTTOM TO TOP: LOUIS BRISSON, FRANÇOIS DUBOIS ET SYLVAIN OUELLETTE.

"Of course I was interested in taking part in a project to reduce risks for warehouse workers because of my duties. And there was no such ladder on the market. I found it rewarding to create one from scratch. It can be used in any warehouse."

— **Louis Brisson**
Health and Safety Advisor

"Following repeated comments by warehouse workers about our old rolling ladder, I held a task observation during which we found several risks, including falls. I came up with a prototype that was subsequently analyzed by the team. A local manufacturer made some modifications, and the ladder is now a work tool that is well liked by users."

— **François Dubois**
Senior Buyer

"The special projects team works with various departments to find innovative solutions when there are no suitable solutions or no solutions at all. Working with warehouse representatives and OHS advisors, we assessed various potential solutions before agreeing on a final concept. It's always rewarding to see our expertise put to use to make our colleagues' work safer."

— **Sylvain Ouellette, Eng.**
Senior Engineer, Mining Operations Projects



Social

CMM offers quality of life and working conditions that are conducive to professional development; it is our way of recognizing our employees' engagement.

Portrait of the Vallée-de-l'Or RCM's Largest Private Sector Employer

G4-10

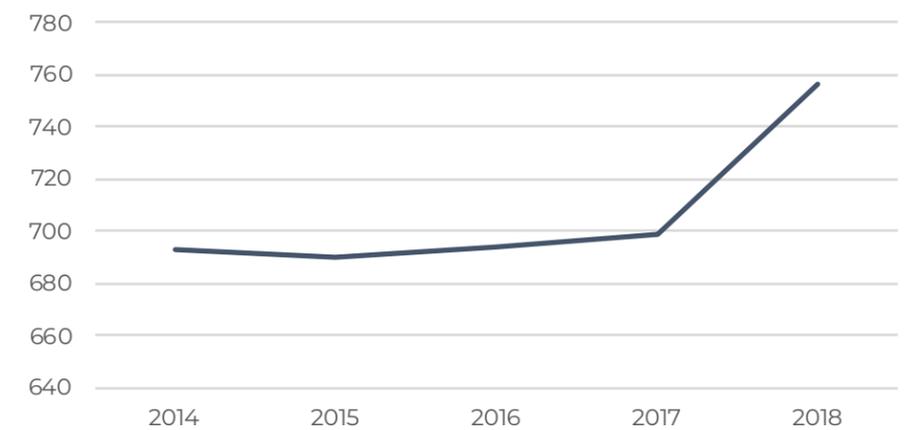
The number of employees working on site has been growing steadily, especially since 2017, due to the Malartic Extension Project and the deviation of Highway 117.

756 employees at CMM

- 747 permanent employees
- 9 temporary employees

In addition, there are more than 1,100 contractor employees. In 2018, no less than 1,800 employees worked on the mine site full-time.

Figure 9 - Change in Total Staff at Canadian Malartic Mine, 2014 to 2018



**NO LESS THAN
1,800 EMPLOYEES
WORKED ON THE MINE
SITE FULL-TIME**

NEW HIRES: INCREASED RECRUITMENT IN 2018

G4-LA1

- 77 new hires compared to 51 in 2017.
- 49 staff departures at CMM in 2018.
- A male-to-female ratio similar to last year: 17% women versus 17.6% in 2017.
- A young team: of the 77 new hires, 36 were between 18 and 29 years of age (47%), compared to 26 (51%) in 2017.

RENEWED COMMITMENT TO GENDER BALANCE AND DIVERSITY

G4-LA12

In 2018, 17% of the 77 new hires in the Company's various sectors were women, hourly-rated employees and managers combined. As an example, two female production truck operators were hired.

Distribution of men and women in 2018

92 women (12%) / **664 men** (88%)

Table 5 - Distribution of Employees by Gender and Type of Position in 2018

Hourly-rated female employees	3%	20
Female managers	9%	72
Total female employees	12%	92
Hourly-rated male employees	60%	453
Male managers	28%	211
Total male employees	88%	664

"What first struck me when I joined CMM was the culturally diverse and young team. Both of these factors create much momentum. The desire to continually do better is motivating and promotes learning. With cultural diversity comes a different social life, which leads to new discoveries. That is what pushed me to believe in myself, and my professional life has taken off since I joined the team!"

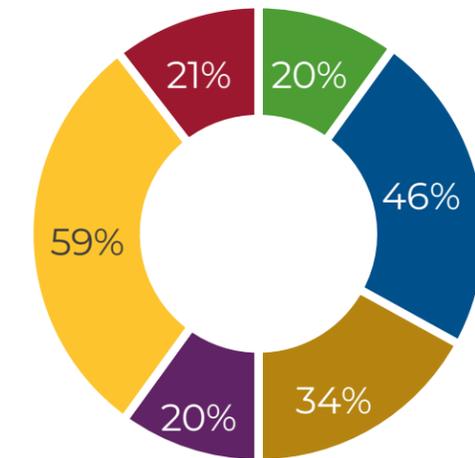
— **Vigéline Aimée Kombou Nanko**,
Junior Mining Engineer



VIGÉLINE AIMÉE KOMBOU NANKO

CMM is committed to fighting all forms of discrimination based on gender, age or nationality and culture and relies on its Hiring Policy and its Policy on preventing harassment, discrimination and violence in the workplace. CMM ensures pay equity upon hiring, as it applies the principle of pay equity (equal pay for work of equal value).

Figure 10 - Employee Categories by Age Group in 2018



■ Hourly-rated employees <30
 ■ Management employees <30
■ Hourly-rated employees 30-50
 ■ Management employees 30-50
■ Hourly-rated employees >50
 ■ Management employees >50

CMM's close ties with educational institutions and training venues in the region and elsewhere in Quebec give it visibility and enable it to recruit a skilled and youthful workforce.

"After completing my studies in human resources, I returned to the region in search of a job in my field. CMM offered me that opportunity. I'm very proud to work for CMM. Being part of such a large-scale project is proof that synergy can quickly be created, for example, among more than 1,800 employees on the site! Like my other team members, I, too, have access to continuing education, which keeps me up to date and makes me a more effective recruiter."

— **Marianne Chartrand-Deschênes**,
Talent Acquisition Advisor



MARIANNE CHARTRAND-DESCHÊNES

RETURN TO WORK AND WORK-LIFE BALANCE

Forty-four (44) male and female employees took parental leave in 2018, and 38 of them had returned to their positions at the end of the year. All 37 employees who took parental leave in 2017 and who returned to the organization that same year were still in their positions twelve months later.

CMM gives management employees control over their work schedules, allowing them to start their workday earlier, for example. It also gives them the ability to work on a 5-2-4-3* schedule, which gives them one day off per 80-hour pay period.

* 5 days on, 2 days off, 4 days on, 3 days off.

RETIREMENT PREPARATION

CMM offers a voluntary retirement preparation training program to employees of 55 years and over. The program includes a financial component and a psychological component.

In 2018, 21 employees and some of their spouses took the two-day training program.

A Challenging Work Environment

In order to attract and retain its workforce, CMM seeks to offer its employees a motivating work environment and excellent compensation and benefits.

COMMITMENT AND ACTION PLAN

CMM conducted an employee engagement survey in 2017. Based on the survey results, the human resources team held various meetings with groups of employees to discuss issues of concern. These discussions led to the development of an action plan in 2018 that will be implemented within the next two years.

Targeted actions include introducing a performance management system for hourly-rated employees, increasing Executive Committee presence in the field, reviewing supervisors' roles and responsibilities, preparing for retirement and establishing a program to recognize years of accident-free service.

RETENTION RATE

2018: 93.52%

2017: 95.03%

2016: 95.24%



TRAINING G4-LA9 G4-LA11

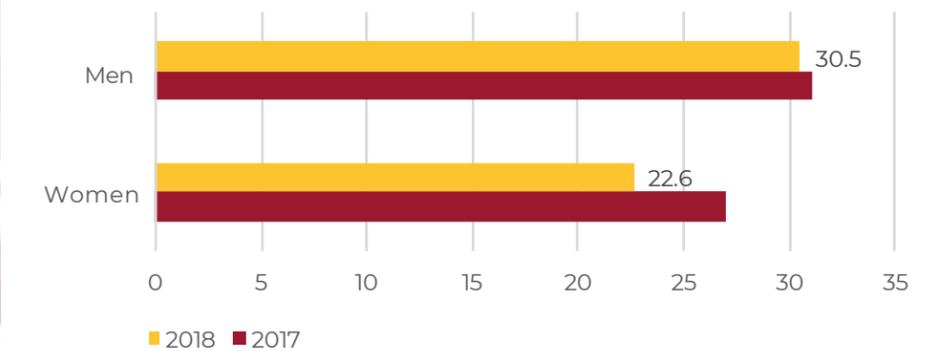
The Company's success is closely tied to our team's strength and motivation. CMM sees training as a means for employees to excel in their current duties and prepare to possibly take on other responsibilities. While the types of training and the employees who were given training this year differ from 2017, CMM maintained its investment in training in 2018, which totalled \$1.7 M (including wages, training costs and related costs).

Employees received a total of 20,808 hours of training, compared to 21,358 hours in 2017.

More than 700 employees, including student employees and interns, received training in 2018.

Employee needs determine training. Training can also be determined once annual assessment meetings have been held with all of the Company's management employees.

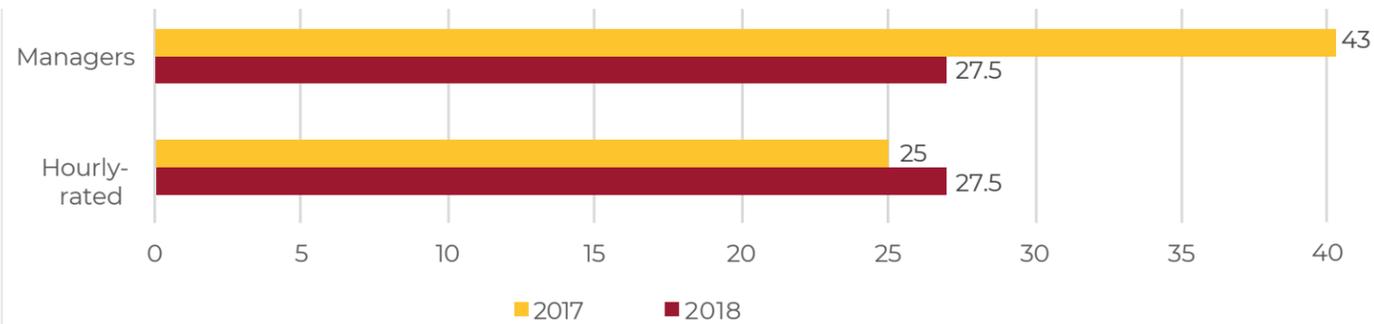
Figure 11 - Average Number of Training Hours by Gender in 2017 and 2018



The average number of training hours for women declined between 2017 and 2018 (22.6 hours in 2018, down from 27 hours in 2017) and in relation to the average number of training hours for men (30.5 hours in 2018, down slightly from 31 hours in 2017).

The average number of training hours per employee also dropped compared to 2017.

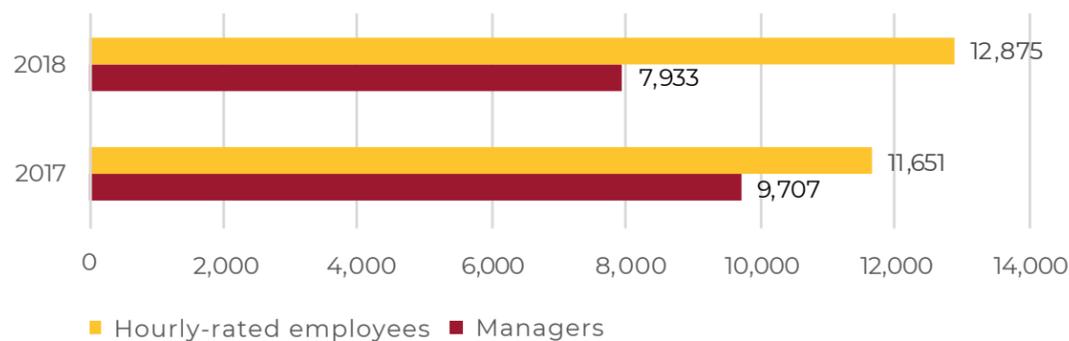
Figure 12 - Average Number of Training Hours Per Employee in 2017 and 2018



The number of training hours was maintained despite a drop in the average number of training hours, which is due to the larger number of hourly-rated employees who received training.

CMM's hourly-rated employees received more hours of training in 2018 than in 2017, while the opposite is true for management employees.

Figure 13 - Training Hours Accumulated in 2017 and 2018



IN-HOUSE JUNIOR ENGINEER DEVELOPMENT PROGRAM

CMM makes it easy for employees, including junior engineers, to integrate into their new work environment. Our 24-month Junior Engineer Development Program allows junior engineers to work in the production, support and drilling departments and helps them achieve their objectives and confirm the activity sector that best fits with their interests. The program operates in every field of activity: mining engineering, metallurgy, ore processing, mechanics, electricity and geology. Each junior engineer receives guidance from a mentor. Four employees benefitted from the program in 2018.

BENEFITS G4-LA2 G4-EC3

Insurance and Assistance

Generous life, disability and health insurance is provided to permanent, full-time employees.

- Life insurance represents 1 to 2 times the annual salary of hourly-rated employees and twice the annual salary of management employees.
- Short-term disability insurance represents 70% of the weekly compensation of hourly-rated employees and 100% of that of management employees.
- Long-term disability insurance represents 60% of the monthly compensation of all employees.
- Ninety to 100% of dental care is covered for most employees, depending on the type of care.
- Vision benefit totals \$400 every 24 months and fully covers an eye examination.
- The medical specialist consultation benefit is \$650 per year.

CMM also provides its employees with a free and confidential assistance program. The Employee Assistance Program (EAP) is an outside consultation service for employees and members of their family who are struggling with personal, professional, financial or health problems.

Employee Share Purchase Plan G4-EC3

All full-time employees are eligible for the Employee Share Purchase Plan, which enables them to earn income tied to the market value of shares in both parent companies. CMM's contribution is equal to 50% of employees' contributions. Employees' maximum contribution is 10% of their annual base salary.

Retirement Plan

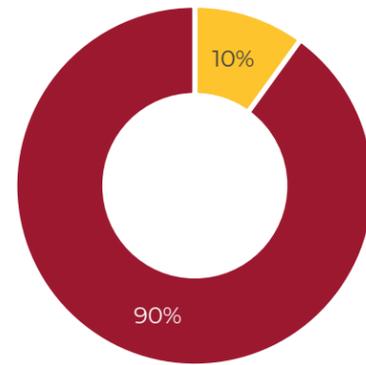
All our permanent employees are automatically eligible for our retirement plan. The Company's contribution is equal to the employee's. A minimum contribution of 1% is mandatory to ensure the future financial security of all our employees.

In 2018, CMM contributed up to 5.5% of its employees' salaries to the Employee Retirement Plan, based on employees' individual contributions.

Employee Representation in Governance

G4-LA12

Figure 14 - Male-to-Female Ratio – CMM Management in 2018



■ Women ■ Men

The ratio of women involved in the Company's governance bodies is similar to the ratio of women at CMM.

LABOUR RELATIONS: A DEDICATED COMMITTEE

The *Comité bonne entente* (Harmony Committee) is a forum for sharing that aims to improve the understanding of employees' concerns and to work collaboratively to improve and maintain good labour relations. It is an advisory mechanism that aims to make recommendations. The committee embraces the values of listening, collaboration and respect. The committee consists in eleven management representatives and eight employee representatives who are elected by colleagues in the sector they represent. Committee make-up may evolve with needs and circumstances. The *Comité bonne entente* held 11 meetings in 2018, in addition to departmental and bargaining meetings.

The committee meets all hourly-rated employees once a year. The departmental meetings are an opportunity to select the subjects to be addressed during bargaining and to learn about successes and desired improvements. Various reports are then submitted to the departments concerned. *Comité bonne entente* members are also regularly invited to sit on ad hoc working committees.



Environment

Our team constantly strives to implement innovative practices to make more effective use of natural resources and to limit our environmental impact.

Environmental Compliance

Environmental compliance results were excellent in 2018:

Air quality: 100% compliant with Quebec air quality standards pursuant to the Clean Air Regulation: 1,333 consecutive days (from May 8, 2015, to December 31, 2018).

Noise: 100% compliant with applicable noise limits under standards in effect.

Blasting: 99.6% compliant with Quebec blasting standards:

- Vibration: 100%
- NOx emissions: 99.6%
- Overpressure: 100%

Water: 100% compliant with current standards.

A Range of Impact Mitigation Solutions

The Good Neighbour Guide, described in the Community section of this report, includes an action plan consisting of prevention, management and impact mitigation measures targeting noise, air quality and blasting (vibration and overpressure).

AIR QUALITY

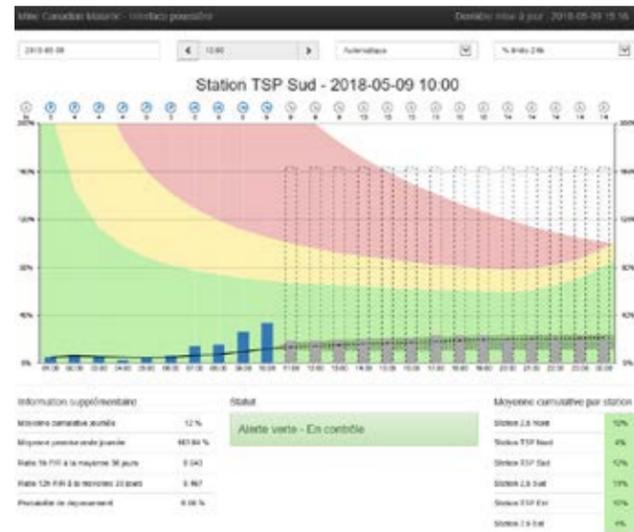
Air quality is a constant concern, as is noise. Several tools are used to constantly measure air quality in the Town of Malartic:

- 1 | Three stationary measuring stations** to inform the CMM team of particles in real time. The locations are approved by the Ministry of the Environment and the Fight against Climate Change.
- 2 | Two mobile stations** for real-time data on particle levels near work being done on the Highway 117 deviation and the Malartic Extension Project.
- 3 | Dust prediction software** developed by CMM to monitor the change in air quality in the Town of Malartic and predict concentrations.

AIR QUALITY (CONTINUED)

Figure 15: Dust Prediction Software

The stations measure total particulate matter, fine particles, some metals and nitrogen dioxide.



Mechanisms for managing exceedances:

- 1. Activity planning to ensure compliance**, mainly with a predictive tool that uses historical data and that was developed to anticipate emissions over a 24-hour period.
- 2. An automatic notification system** that notifies CMM personnel (general management, processing plant, Malartic Extension Project and infrastructure) when measurements reach 80% of the levels permitted by the standards.
- 3. On-site assessment by each department**, after a notification is received, to determine if operations are creating dust. A dynamic map can be used to show the location and identify potential dust sources in real time.
- 4. Effective mitigation measures**, including spraying dust with water and, if necessary, completely shutting down equipment when dust levels approach the levels permitted by the air quality standards. Equipment down time totalled 6,613 hours in 2018.



NOISE

Numerous measures have been implemented to manage and reduce noise that may be created by our activities.

Our main measurement tools are:

- 1. Four stationary acoustic stations** installed in four different locations throughout the town. The locations are approved by the Ministry of the Environment and the Fight against Climate Change.
- 2. Dynamic acoustic map** for the real-time identification of predominant noise generated by equipment, based on wind direction and speed.
- 3. Two mobile acoustic stations** to measure noise in real time near work being done on the Malartic Extension Project.
- 4. Real-time tracking software** connected to the mobile acoustic stations to interpret measurements.

Below are a few examples of measures taken in 2018 to reduce noise:

- Completely shut down equipment when the noise level approaches the limits indicated in municipal noise by-laws and the Environment Quality Act.
- 15,506 hours of equipment down time
- As part of work being done near Champlain Avenue, acoustic panels were installed directly on a drill to reduce noise impacts for nearby citizens.

Figure 16 – Location Map of Air Quality Stations and Sound Monitoring Stations



A. Air Quality Stations
B. Sound Monitoring Stations



BLASTING

CMM is authorized to perform two blasting activities per day, 365 days a year: between 11 a.m. and noon and between 3 p.m. and 4 p.m. The permitted blasting length is 15 seconds.

In 2018, blasting operations in the pit were as follows:

- 239 blasts took place
- On 131 days, one blast was performed.
- On 54 days, two blasts were performed.

Several planned blasts were cancelled, mainly due to wind blowing towards the Town of Malartic.

WATER

Table 6: Water Use in 2018, by Source

Source	Use
Southeast Basin, which collects runoff from the site and the tailings pond	Ore processing
Tailings pond	Sent to the Southeast Basin, and then recirculated to the ore processing plant
Former underground mine shafts	Mainly sent to the polishing pond and released into the environment. A small amount is used for ore processing
Johnson Basin, fed by the Raymond Creek	A reserve in case of fire or a back-up source of water should there be a supply issue with the other water sources
Barrette Well	Dust control in the Barrette sector
Potable water from the municipal water system	Solely used for human consumption. It is discharged into the municipal sewage system.

WATER CONSUMPTION G4-EN8 G4-EN10

The following table shows the amount of water withdrawn from each source for CMM's operations. These amounts are calculated using flowmeters, with the exception of the water system, whose volume is recorded each month by water meters.

Table 7: Change in Water Withdrawals in Cubic Metres, 2014 to 2018

Source	2014	2015	2016	2017	2018
Southeast Basin (a)	12,473,537	12,302,620	12,105,308	11,177,309	11,251,593
Pit Dewatering (ground water) (b)	5,890,700	6,088,486	5,794,634	7,051,392	6,595,691
Johnson Basin	78,144	124,724	68,347	52,696	221,119
Barrette Well (dust control in the Barrette sector)	-	2,694	12,602	9,601	12,039
Municipal potable water	48,698	23,057	30,836	32,283	47,324
TOTAL	18,491,079	18,541,581	18,011,727	18,323,281	18,127,766

(a) The Southeast Basin is the main source of water for ore processing.

(b) A portion of the water is used for spraying as part of dust control.

92.5%
OF WATER USED AT THE ORE PROCESSING PLANT WAS SOURCED FROM THE SOUTHEAST BASIN BY RECIRCULATION IN 2018.



WATER RETURNED TO THE ENVIRONMENT G4-EN22

In 2018, 9,282,915 cubic metres of effluent from the site was discharged into Raymond Creek.

WATER TREATMENT

As a result of activities at the site and major fall precipitation, water in the Southeast Basin was treated in 2018 to lower the basin's level and prevent it from overflowing. The quality of water discharged into the environment consistently met environmental standards.



TEAMWORK

"Water management is a major challenge because we have no control over the weather and sometimes have to react quickly. In 2018, situations compelled us to partially or completely rebuild some of our pumping facilities. Effective solutions had to be found quickly by having stakeholders work collaboratively. Planning and communication were key to the project's success. I gained this unique and very rewarding work experience at the very beginning of my career."

— Marc-Antoine Vachon
Project Manager - Environment

"The main challenge was ensuring good communication between colleagues in various departments and suppliers to meet tight deadlines and adequately meet pumping needs. It was an opportunity for me to develop effective multidisciplinary teamwork skills. These projects could not have been completed on time without exemplary teamwork."

— Simon Desrochers, Eng.
Electrical Engineer

QUALITY

Wastewater management is a constant concern at CMM, which is why it teamed up with several organizations in order to maintain the quality and level of their interventions. Water samples are taken and analyzed several times a year.

GROUNDWATER QUALITY AWARD: CMM RECOGNIZED FOR ITS ANALYSIS OF DOMESTIC WELLS



In 2018, the *Organisme de bassin versant (OBV) Abitibi-Jamésie*, the *OBV du Témiscamingue* and the *Association forestière de l'Abitibi-Témiscamingue*, in collaboration with the Institute of Forest Research at UQAT, held the first ever regional forum on water in Abitibi-Témiscamingue (*Forum régional sur l'eau de l'Abitibi-Témiscamingue*). On the sidelines of that forum, a gala evening was held on June 6 to present awards to bodies and organizations that distinguished themselves through their actions and commitments in support of water. CMM received the Groundwater Quality Award in recognition of its commitment to analyze domestic wells. Carl Pedneault, Environmental Superintendent – Tailings Pond, accepted the award on behalf of CMM. This monitoring program, which is planned to run from 2016 to 2021, is a voluntary initiative to increase our knowledge and address citizens' concerns about a potential drawdown of the water table within a radius of approximately seven kilometres of the pit.



Energy and Climate Change: A Challenge and Continuing Efforts

CMM uses various energy sources for its operations:

1. Electricity supplied by Hydro-Québec is mainly used to operate the plant, pumping systems and production equipment, including hydraulic shovels.
2. Fuel is used for the equipment fleet.

G4-EN15 G4-EN16

GREENHOUSE GASES: TAKING CONCRETE MEASURES

Our operations' GHG emissions have been increasing since 2016. This is partly due to increased operations, particularly for the Malartic Extension Project. Mining of the pit at a greater depth also increases ore hauling hours.

Based on an annual inventory taken under the TSM initiative, diesel consumption accounts for more than 90% of Canadian Malartic Mine's GHG emissions. Of all activities requiring diesel, three account for nearly 70% of total diesel consumption: ore hauling (50%), production drilling (10%) and loading of 793F trucks (10%). Based on this recognition and CMM's determination to significantly reduce its environmental impact, CMM is focusing on:

1. Creating a sustainable development directorate;
2. Setting diesel consumption targets; and
3. Conducting internal and external audits.

Table 8: Estimate of Greenhouse Gas Emissions and Precious Metals Production, 2014 to 2018

Emission Sources	CO2 Equivalent (tonnes)				
	2014	2015	2016	2017	2018
Production (gold and silver, in ounces)	1,068,785	1,172,525	1,264,975	1,315,630	1,570,620
Direct Sources¹					
Mobile equipment	134,659	135,198	145,859	169,461	202,247
Natural gas combustion by fixed equipment	8,400	7,961	8,230	8,580	8,936
Diesel combustion by fixed equipment	9,511	7,843	3,476	4,194	5,987
Propane combustion by fixed equipment	160	165	171	98	47
Use of explosives and sodium carbonate	13	11	10	9	8
TOTAL	152,743	151,178	157,746	182,342	217,225
Indirect Sources²					
Electricity purchased from Hydro-Québec	2,180	1,590	1,627	1,639	1,143
TOTAL	154,923	152,768	159,373	183,981	218,368
Tonnes of emissions per ounce of gold and silver	0.14	0.13	0.12	0.14	0.14

¹ Direct sources were calculated by multiplying volumes of fuel consumed by the emission factors provided in the Regulation respecting mandatory reporting of certain emissions of contaminants into the atmosphere, Schedule A-2, available at: http://www.environnement.gouv.qc.ca/air/declar_contaminants/

² Indirect sources were calculated by multiplying the total kilowatt hours consumed by the conversion factors provided by Environment Canada in "Table A11-6 Electricity Generation and GHG Emission Details for Quebec (2013)" available at: http://publications.gc.ca/collections/collection_2018/eccc/En81-4-2016-3-eng.pdf

Materials Management

CONSUMPTION ^{G4-EN1}

Most materials were used in the ore processing plant and for day-to-day operations.

Table 9 - Materials Consumed in 2018

Ore Processing Plant	
Materials	Quantity Consumed (in kilograms of material per metric tonne of ore)
Fresh activated charcoal	0.044
Scale inhibitor	0.015
Flocculent (polymer)	0.022
Balls for tertiary grinders	0.211
Balls for secondary grinders	0.352
SAG ball	0.516
Quick lime	0.526
Sodium cyanide (100% NaCN)	0.202
Liquid oxygen	0.243
Hydrogen peroxide (100% H ₂ O ₂)	0.91
Caustic soda (100% NaOH)	0.030
Zinc sulphate (hydrated)	0.002
Sulphuric acid (93%)	0.556
Operations	
Materials	Quantity Consumed
Explosives (tonnes)	18,815
Diesel (litres)	69,470,183
Electricity (KWh)	672,308,964
Tires (units)	2,049

SPILLS G4-EN24

Our operations can cause two types of accidental spills:

- Contact or process water spills (water that has been in contact with mine tailings in waste accumulation sites or cyanide-containing process water from the plant); and
- Heavy equipment leaks in the mine's various mining operations sectors.



Spill volume is up in 2018 compared to 2017 because of accidental contact water and process water spills, which are related to a basin that overflowed during an intense storm resulting in precipitation levels that exceeded the regulatory design precipitation event.

The amount spilled in 2018 was 1,000 m³, or 99% of the accidental spill volume. Following this spill, transfer pump capacity was increased to handle more extreme weather events.

It should be noted that the basin overflow had no environmental impact, as this was mostly rainwater associated with an intense storm.

Heavy Equipment

We have, however, taken full measure of the growing number of accidental spills (oil, antifreeze, diesel and gas) associated with heavy equipment due, in particular, to the continuous increase in operations and the equipment fleet. These incidents are now one of CMM's environmental priorities. It should be noted that the volume of equipment spills increased by 3%, going from 76.4 m³ in 2017 to 79 m³ in 2018.

While this increase is small, the objective is to reduce equipment spill frequency and volume. In order to achieve this, a reliability engineer with CMM's heavy equipment maintenance team initiated a project to identify spill causes and to improve preventive maintenance. The project is expected to reduce accidental spills associated with equipment. The response to all accidental spills was swift, and the environment was therefore not contaminated.

These spills did not have a major impact or cause environmental contamination outside the footprint of the CMM facility in 2018. No spills occurred in any waterways.



ENVIRONMENT

Where do residual materials go?

- Non-recyclable residual materials ➤ Landfill sites
- Residual hazardous materials ➤ Authorized treatment sites in Quebec
- Recyclable residual materials ➤ Recycling centres

RECYCLING G4-EN23 G4-EN25

As part of its sustainable development approach, CMM constantly seeks to extend the life cycle of the materials it uses.

- Materials that are recycled rather than landfilled have skyrocketed by 69% since 2017.
- No hazardous waste was exported.

Table 10: Amount of Residual Materials Generated, 2014 to 2018

Type of Waste	Amount Generated (tonnes)				
	2014	2015	2016	2017	2018
Residual materials, including recycled materials	2,030	3,137	3,915	8,949	15,160
Residual hazardous materials	724	1,213	1,098	2,546	1,069

- The hazardous materials referenced in the table above include 638,723 litres of waste oil that was generated by CMM and treated by an authorized company.

Table 11: Recycled Volumes by Material, 2014 to 2018

Type of Material	Amount Recycled (tonnes)				
	2014	2015	2016	2017	2018
Wood	386	409	458	458	516
Paper and plastic	102	154	182	170	212
Metal and wire	1,108	999	1,405	1,004	1,189
Tires (Recyc-Québec)	48	170	28	110	8
Oversize tires	n/a	920	1,059	386	1,623
Rubber	n/a	142	412	3,482	4,928
Worn blasting mats	n/a	n/a	n/a	2,980	6,684
IT and communication	n/a	n/a	n/a	2	n/a
Total	1,644	2,794	3,544	8,592	15,160

The increase in recycled materials can be attributed to rubber sent for recycling and is primarily due to larger inventories of blasting mats and oversize tires for the heavy equipment fleet in 2018 (blasting mats that had exceeded their useful life and worn tires that were sent for recycling). Tire and blasting mat replacement rates can vary from one year to the next.

The truck body rubber lining for the 240-tonne trucks that had to be replaced also added to the amount of recycled materials. A supplier was recycling this rubber.



**484 TONNES
OF MATERIAL LANDFILLED**

TAILINGS, WASTE ROCK AND OVERBURDEN

Rock mining generates huge amounts of waste that we seek to use to limit above-ground piles.

There are two main types of waste:

1. Overburden and barren or non-ore material that overlies and must be removed to gain access to minable grade material (grass, top layer of soil).
2. Waste rock or rock that has been mined but contains too little ore to warrant treatment.

Table 12: Total Amounts of Overburden, Waste Rock and Tailings in 2018

Type of Material	Volume in Tonnes
Overburden mined	5,175,701
Waste rock mined (total)	39,466,576
Waste rock reused in tailings dam construction	5,750,613
Waste rock reused in other construction	2,785,917
Waste rock placed on surface waste rock piles	30,930,046
Thick tailings placed in surface tailings containment	20,483,740

Biodiversity and Environmental Protection

In 2017, CMM launched its Biodiversity Conservation Plan following on the Biodiversity Conservation Management Plan in 2016. It is the result of a vast consultation of 15 communities of interest, including the *Association forestière de l'Abitibi-Témiscamingue (AFAT)*, the Abitibiwinni (Pikogan) First Nation Council, the Town of Malartic and *ÉcoMalartic*.

The Biodiversity Conservation Plan has numerous objectives. In addition to consolidating existing actions, CMM intends to structure its long-term approach by defining key directions and implementing new actions.

KEY DIRECTIONS OF THE BIODIVERSITY CONSERVATION PLAN

Target 1 – Protect and restore ecosystems

Direction 1: Take ecosystems into account during all phases of project planning.

Direction 2: Minimize impacts on biodiversity.

Direction 3: Help maintain or restore biodiversity.

Target 2 – Develop tools for maintaining biodiversity

Direction 4: Develop coaching and training tools to inform, train and educate stakeholders.

Direction 5: Collaborate and share knowledge with the community.

Target 3 – Acquire knowledge

Direction 6: Implement tools to promote the acquisition of information on the sites.

Direction 7: Take part in research projects.

HIGHLIGHTS

Partner in the new NSERC-UQAT Industrial Research Chair on northern biodiversity in a mining context

The *Université du Québec en Abitibi-Témiscamingue (UQAT)* launched the NSERC-UQAT Industrial Research Chair on northern biodiversity in a mining context on March 27, 2018. Supported by the National Science and Engineering Research Council (NSERC) and ten partners, including CMM, this new Chair's mission is to increase knowledge creation and transfer on northern biodiversity in order to develop strategies to reduce the potential impacts of development throughout the mine life cycle.

WHITE PINES GET A NEW LIFE

A wood reuse project saw the *Comité Piste 4 saisons* of Malartic turn white pines into a shelter for users of a multipurpose path between Malartic and Rivière-Héva. The good-sized trees had been set aside during site clearing carried out as part of work on the polishing basin in 2016.



WETLAND AND FISH HABITAT LOSS COMPENSATION PLAN

The decree issued in 2017 concerning the Malartic Extension Project includes the implementation of a wetland loss compensation plan.

With this in mind, the implementation of several projects selected in consultation with the Ministry of the Environment and the Fight against Climate Change began in 2018:

- **Southeast Basin:** Restore wetlands once the mine is closed.
- **Research Chair:** Provide a grant to the UQAT Industrial Research Chair on northern biodiversity in a mining context from 2018 to 2021.
- **Malartic River Linear Park:** Start discussions on cleaning up the river and developing recreational parks in the Town of Malartic, in collaboration with municipal authorities.
- **Lake Parguière Wildlife Management:** Start discussions on preserving habitat for flora and fauna with Ducks Unlimited, a non-profit wetlands conservation organization.
- **Halet Road Bridge:** Clean up the river and dismantle the old bridge structure that collapsed into the river to promote the upstream migration of fish during spawning.
- **Financial Contribution for the Ministry of Forests, Wildlife and Parks, dismantling of a bridge,** whose eventual collapse threatens a sturgeon spawning ground.
- **Fiske Marsh Wildlife Management:** Start discussions on rehabilitating a dike to preserve waterfowl habitat, in collaboration with Ducks Unlimited.

Tailings Pond

PROJECTS UNDERWAY IN 2018

Not only did the tailings pond team continue projects initiated last year, but it also completed new projects, which are detailed in the table below.

Table 13: Projects Completed at the Tailings Pond in 2018

Expand tailings pond	Expansion of the tailings pond continued in 2018 to maintain tailings storage capacity for the Malartic Extension Project. The expansion will increase the pond's area by 150 hectares.
Automate geotechnical monitoring instrumentation for the tailings pond	CMM continued to automate the tailings pond by installing geotechnical instrumentation for collecting real-time results and receiving emails in the event of a fault.
Add monitoring instruments for the tailings pond	More instruments were added to the tailings pond in 2018, specifically for the expansion. The instruments measure water pressure and movements in the tailings and underlying soils and confirm that structures' actual geotechnical conditions meet design criteria.
Build three contact water catch basins	As part of the tailings pond expansion, CMM built a water management system for this area so that the water can be reused for operations or sent to the polishing basin and then to final effluent.
Restore a borrow pit	Organic soil was spread, and 10,000 trees were planted, including 3,000 white pines, a species already found in the area.

SITE RESTORATION

Studies and field tests continue in order to determine the best possible restoration techniques.

Our intention remains to select a strategy that allows us to reuse mine waste to restore the site rather than use natural material, like clay, sand and gravel, brought in from outside.



Experimental plantations



Revegetation experimental cells

In this regard, we continue to cooperate with three following leading research institutes:

- Research Institute on Mines and Environment (RIME) of the *Université du Québec en Abitibi-Témiscamingue* (UQAT) and *Polytechnique Montréal*.
- Industrial Waste Technology Centre (CTRI) of the *Cégep de l'Abitibi-Témiscamingue*.
- *Unité de recherche et de service en technologie minérale* (URSTM) of the UQAT.

On December 31, 2018, the Government of Quebec held \$112.5 M in trust to ensure the safe and timely closure of the Canadian Malartic site once mine operations have ceased.

Community Engagement

Dialogue

Communication is central to our community relations. CMM uses a range of facilitative actions to regularly inform citizens in its host community and stakeholders and to create opportunities for conversation.

MANY TOOLS AND FORUMS FOR DIALOGUE

G4-24 G4-26 G4-27 G4-SO1

Maintaining good neighbourliness requires, first and foremost, complete and transparent information. Communications are also designed to update various stakeholders: citizens of Malartic and Rivière-Héva, CMM and contractor employees, suppliers, community partners, current and potential investors in both of our properties, municipalities and governments, First Nations, the media, mining industry members and any group interested in CMM's activities.

In 2018, CMM published newsletters and other printed material, distributed memos and was active on social networks to provide information on the mine's activities, answer questions and remind everyone of the many ways they can use to communicate with the Company.



HIGHLIGHTS

MORE THAN **68 COMMUNICATIONS** SENT TO CITIZENS AND VARIOUS STAKEHOLDERS.

CLOSE TO **20 DIFFERENT COMMUNICATION MEDIA** USED.

NEARLY **20 DOCUMENTS** DISTRIBUTED DOOR-TO-DOOR IN MALARTIC.

CMM issued four newsletters for the residents of Malartic in 2018. The newsletters primarily share information on mine activities and community involvement achievements.



TRAFFIC AT THE COMMUNITY RELATIONS OFFICE

CMM has had a Community Relations Office in downtown Malartic since January 2016. It welcomed some **7,460 visitors** in 2018, compared to 4,696 visitors in 2017. Again, this year, the main reasons for visiting the office were to register for the compensation program, inquire about the implementation of the program to resell acquired properties, request information and share concerns. The temporary suspension of the Good Neighbour Guide, from December 2017 to July 2018, as result of legal proceedings before the courts, also generated visitor information requests.

MALARTIC EXTENSION PROJECT

Canadian Malartic Mine put significant effort into informing Malartic citizens and its stakeholders about developments in the Malartic Extension Project (MEP). CMM believes that listening and constructive dialogue are best:

- One coffee meeting
- Five newsletters and advertisements
- One information campaign to announce the resumption of road work
- Five information memos
- Two site visits, one held for the Seniors Recognition Committee, including a group of seniors from Rivière-Héva, and the other for the *Comité d'échanges et de suivi Canadian Malartic*

Average monthly traffic in 2018 at the community relations office: **622 people**



MEETING WITH COMMUNITY ORGANIZATIONS G4-24 G4-26

Canadian Malartic Mine actively participates in social and community development. Its commitment was given concrete expression in 2018, as CMM visited some thirty community players in Malartic to discuss their realities, inform them of various CMM programs, and thus develop or consolidate close relations.



Comité d'échanges et de suivi Canadian Malartic G4-24 G4-26 G4-27

A Citizen Committee Serving the Community
The CES-CM is a choice forum for exchanges between CMM and the community that promotes good neighbourliness in Malartic. The CES-CM seeks to involve the local community in CMM activities. Its role is to:

- Create a forum for dialogue and information sharing between CMM, individuals and organizations affected by CMM's activities;
- Develop a shared, comprehensive and nuanced understanding of the environmental, social and economic impacts and issues related to CMM's activities;
- Relay information from the CES-CM's activities to organizations and citizens; and
- Make recommendations to CMM in order to influence and enhance its practices, suggest joint solutions and maximize benefits for the community.

2018 Highlights

- The CES-CM held seven meetings.
- CMM or its partners made 28 technical presentations to the committee.
 - The committee submitted 39 requests to follow up on data and/or information conveyed during meetings.
 - The committee made two site visits (water management in June and Malartic Extension Project in October).
 - The committee examined six complaints lodged by the community and one non-compliance of CMM activities.



G4-27

Technical Presentation Themes:

- Mechanisms for managing complaints and concerns
- Follow-up to the consultation on the Odyssey Project
- Blasting, vibration and overpressure
- Air quality
- Water quality and management
- Sound levels and acoustic protocols

CES-CM'S 2017-2018 PILOT PROJECT

The CES-CM pilot project, initiated in fall 2017, was implemented and completed in 2018.

The CES-CM was established to meet new regulatory requirements, among other things. Its structure is characterized by a consensus-driven work approach and closer monitoring of environmental, good neighbourliness and community relations issues.

It is in 2018 that the CES-CM took ownership of CMM's operations and data. Members were informed during this transition period so that they could fulfill their role.

A report was completed in early 2019 for moving forward with planning that will allow the CES-CM to continue its activities.

Good Neighbour Guide

G4-26 G4-27



During the Collaborative Approach, a wide-reaching consultation process held from 2015 to 2017 to ensure the community was involved in improving CMM's practices, the Working Group on Coexistence Issues in Malartic (made up of representatives from the Town of Malartic, the Comité d'échanges et de suivi Canadian Malartic and CMM) developed a Good Neighbour Guide, which is still in use. The Guide includes:

- Impact prevention, management and mitigation measures;
- A compensation program relating to the impacts and inconvenience caused by Canadian Malartic Mine operations;
- Guidelines governing the acquisition of principal residences in Malartic;
- Guiding principles on the resale of properties acquired by CMM.

The following map shows the location of the three areas covered by the Compensation Program.

Table 14 - Map of Compensation Areas



The Working Group on Coexistence Issues in Malartic ended its work on January 5, 2018, at which time it was dissolved. CMM now implements the Guide.

COMPENSATION PROGRAM

In a judgement rendered on June 27, 2018, the Appeal Court of Québec upheld the Superior Court's ruling allowing Canadian Malartic Mine to continue to compensate citizens in the southern sector (Zone A), despite a class action against CMM in that sector. Consequently, the compensation program for 2017 was offered to all Malartic residents during two separate periods, as CMM had provided compensation to citizens in Zones B and C early in the year and was once again able to implement the Good Neighbour Guide in Zone A, where it had been suspended since December 2017.

COMPENSATION PROGRAM RESULTS FOR 2017

90% buy-in of the Compensation Program among residents of Malartic.
\$2.2 M paid out to citizens of Malartic in 2018.



PROGRAM TO RESELL ACQUIRED PROPERTIES

The Good Neighbour Guide includes guidelines on the acquisition of residences in Malartic. Since 2016, CMM has purchased residences from homeowners who wanted to move out of the southern sector, which is the closest to the mine.

In 2018, CMM purchased four homes, and most of the sellers were satisfied with the approach. Only one case was affected by the temporary suspension of the Good Neighbour Guide, which delayed CMM's acquisition of the home.

In May 2018, CMM implemented a program to resell the homes it had acquired, some of which were renovated to revitalize the neighbourhood and encourage new families to purchase them. Anyone wishing to purchase a property in Malartic is eligible for the program. To meet the guiding principles established by the Working Group on Coexistence Issues in Malartic, CMM posts and makes available for sale a maximum of five properties at a time. Fifteen homes were sold in 2018.

In the interests of transparency, a document detailing the Program to Resell Residences Acquired in the Southern Sector was delivered to all private residences and businesses in Malartic.

CMM also held six public information meetings for citizens and its employees to explain its approach and answer questions. The program's implementation saw the roll-out of another major community communication campaign in 2018.



IMPACT MITIGATION EQUIPMENT

Canadian Malartic Mine regularly invests in effective equipment and tools to reduce impacts that could be caused by its mining operations, including noise and dust.

PRODUCTION TRUCK

Our production trucks have a 218-tonne capacity. Components have been modified or added to reduce noise.

ELECTRIC SHOVEL

Some shovels are fully electric. Components have been modified or added to reduce noise.

PIT VIPER BLASTHOLE DRILL

Our blasthole drill rigs are equipped with rubber skirting and water tanks to limit the spread of dust during drilling.

WATER TRUCK

Water trucks spray roads to reduce dust

HITACHI SHOVEL

This shovel is equipped with a remote control system. Components have been modified or added to reduce noise.

Management of Complaints and Concerns

G4-27

Complaints and concerns plummeted in 2018.

With a renewed focus on preserving — as much as possible — Malartic residents' quality of life, CMM implemented a policy for resolving complaints and concerns. The policy helps to frame and clarify methods for resolving and handling complaints and concerns sent to the mine.

Diligent management of complaints and concerns is vital to good relations between CMM and the neighbouring community.

The procedure includes fast response and careful follow-ups to each complaint or concern received. Each complaint is also entered into a register, while maintaining complainant confidentiality.

CMM received six complaints in 2018, down from 21 in 2017.

G4-EN34

Table 15 - Type and Number of Complaints Received by Canadian Malartic Mine in 2018

Event	Quarter			
	1st	2nd	3rd	4th
Vibration and overpressure	0	0	1	0
Noise	0	0	2	0
Dust	0	0	0	0
Bridge, traffic, odour	1	0	2	0
Total per quarter	1	0	5	0
Total	6			



Community Support G4-24 G4-26

VARIED INTERVENTIONS TO ADDRESS THE COMMUNITY'S NEEDS

For several years, Canadian Malartic Mine has been genuinely committed to contributing to the social, community and economic development of its host community and the region. It provides financial support to several non-profit organizations and development stakeholders as well as to a host of initiatives carried out by the public. It has many tools:

- *Fonds Essor Canadian Malartic*;
- *ÉcoMalartic*;
- Donations and sponsorships;
- Community involvement; and
- Research and development.

In 2018, CMM continued to honour its commitment to be part of a dynamic and healthy living environment. It provided \$1.6 M for community investment and research and development.

FONDS ESSOR CANADIAN MALARTIC: FOR SUSTAINABLE DEVELOPMENT

The *Fonds Essor Canadian Malartic* (FECM) was established in 2008 to leave a positive legacy for future generations. It strives to promote Malartic citizens' quality of life and fulfilment as well as the town's long-term growth by contributing to and supporting initiatives that have a lasting impact on economic, social and cultural development. The Board of Directors' mandate is to analyze the applications it receives, while CMM sees to administration.

Every year, CMM contributes \$150,000 to the Fonds; its funding brief can be viewed on the following website: communaute.canadianmalartic.com.

In 2018, FECM:

- Had nearly \$3,146,000 in capital;
- Donated close to \$148,000 to the community; and
- Focused its support on the well-being of people living on low incomes and amateur sport.

Figure 17 - Percentage of Monies Given to the Community in 2018



\$1.6 M FOR COMMUNITY INVESTMENT AND RESEARCH AND DEVELOPMENT



Figure 18 - Examples of Funding Provided by the *Fonds Essor Canadian Malartic* to the Community in 2018



Organizations wishing to receive funding from the FECM are required to file a funding application and complete the form available at:

<http://communaute.canadianmalartic.com/en/community-involvement>



ÉCOMALARTIC AND THE POST-MINE PERIOD

CMM is committed to supporting local initiatives that contribute to Malartic's vitality and that help to prepare for the post-mine period. Since 2016, CMM has undertaken to support *ÉcoMalartic's* sustainable development plan with \$300,000 annually. The plan strives, among other things, to prolong the mine's benefits.

DONATIONS AND SPONSORSHIPS G4-24

As part of its community involvement, CMM invests in several areas, such as training, education, health, culture and sports.

Examples of donations and sponsorships in 2018:

- The Town of Malartic was given \$500,000 for a project to renovate and expand the *Centre Michel-Brière*, whose grand reopening was held on March 24, 2018.
- CMM renewed its three-year agreement with the Malartic Western Festival, for a total contribution of \$150,000.
- Les Explorateurs elementary school has welcomed Abel, a Mira Foundation dog that helps children struggling with anxiety and stress and those with special needs. CMM donated \$10,000 to this project.

Partnership with the *Refuge Pageau* for rehabilitation projects

Under this three-year agreement running from 2018 to 2020, \$75,000 will be provided for wildlife rehabilitation projects to support the Refuge's primary mission.

This collaboration is part of a sustainable development approach to conserve biodiversity. In addition, CMM believes that the public education component put forward by the Refuge's team is important.

Organizations wishing to apply for a donation or a sponsorship must complete the form available in the website's Community Involvement section at: <http://communaute.canadianmalartic.com/>





COMMUNITY INVOLVEMENT G4-24 G4-26

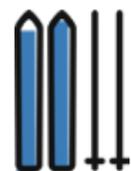
CMM also helps to improve quality of life by being involved in local events and special projects carried out by the community.

Through its Volunteer Program, CMM employees can contribute to the success of numerous activities held by community organizations. The program aims to make employees aware of how important community involvement is and thereby foster a culture of caring. CMM provides its employees with information on organizations in Malartic that are seeking volunteers.

At its annual employee volunteer recognition activity, CMM hands out four \$1,000 awards to randomly selected attendees. Recipients donate their award to the local organization of their choice.

For a second year, CMM teamed up with *ÉcoMalartic* to launch the *J'adopte un arbre* project, an initiative that aims, among other things, to revitalize the community and beautify neighbourhoods throughout the town by offering free ornamental trees to homeowners in Malartic.

TOTAL AMOUNT invested in *J'adopte un arbre* project: \$38,000
Trees distributed in 2018: almost 300



Thanks to funding from CMM, every Saturday during the 2018 ski season, the Malartic Optimist Club provided free transportation from Rivière-Héva and Val-d'Or to Mont-Vidéo to promote physical activity among children under 18 years of age.



IN 2018, CMM EMPLOYEES CLOCKED IN 2,200 HOURS OF VOLUNTEER WORK IN ABITIBI-TÉMISCAMINGUE



Malartic hosted the 4th stage of the *Tour de l'Abitibi* on July 19, 2018. As an event partner, CMM, in collaboration with *IGA Marché Demers*, continued the tradition of inviting the public to the start of the 53-kilometre race and serving free hot dogs and refreshments.

RESEARCH AND DEVELOPMENT

CMM provides funding assistance for research and development, in particular for the restoration of its tailings pond and for the achievement of best practices in ore processing.

Table 16 - Canadian Malartic Mine Contributions to Research and Development in 2018

Research Institute on Mines and Environment (RIME) of the <i>Université du Québec en Abitibi-Témiscamingue</i> (UQAT) and <i>Polytechnique Montréal</i>	\$300,000
NSERC-UQAT Industrial Research Chair on northern biodiversity in a mining context	\$65,000
Industrial Waste Technology Centre (CTRI) of the Abitibi-Témiscamingue CEGEP	\$20,000
COREM (ore-processing research consortium)	\$200,000
Groupe MISA (networked mining innovation expertise)	\$8,000
Total	\$593,000

FIRST NATIONS

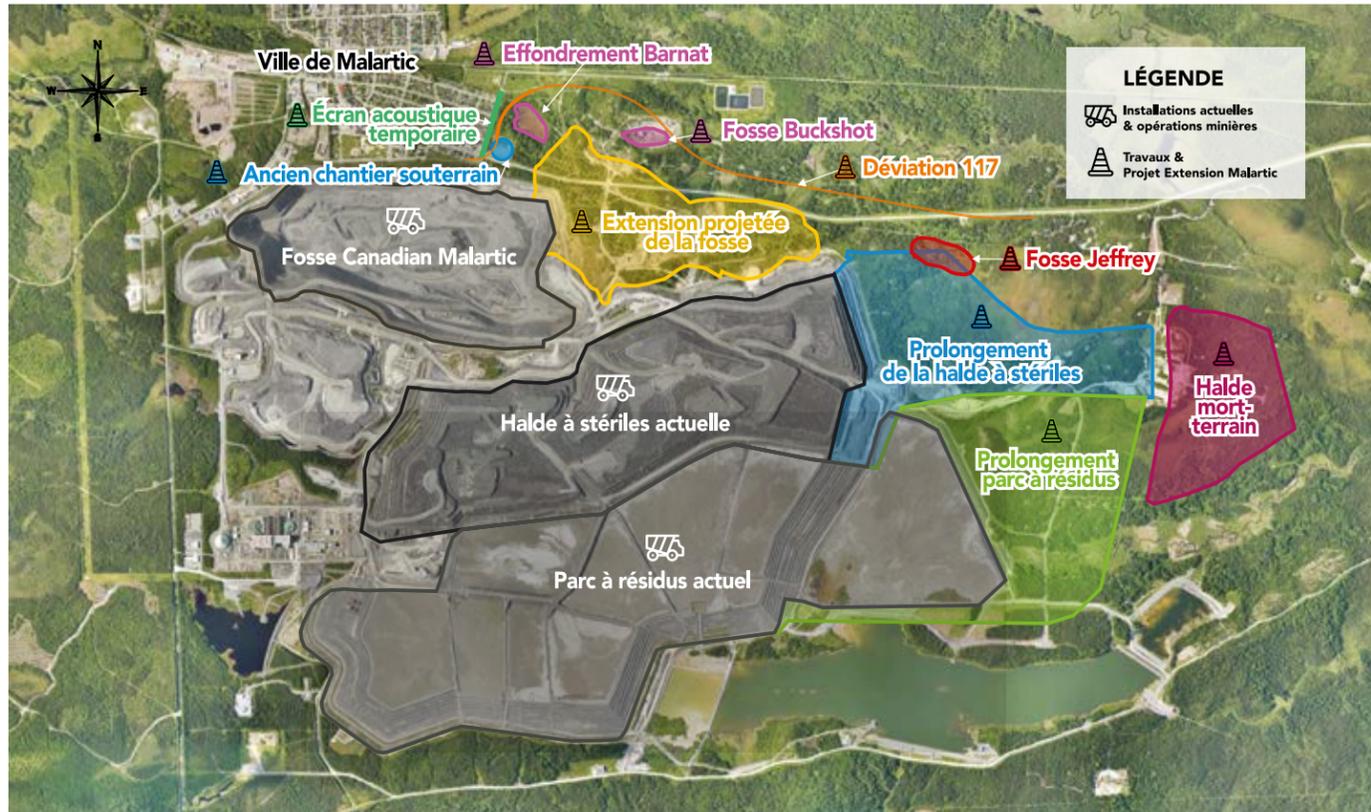


Canadian Malartic Mine endeavours to live and cooperate with all stakeholders, including Aboriginal communities. In March 2018, a working group composed of representatives of CMM and the Abitibiwinni, Lac-Simon, Winneway and Kitcisakik First Nations was established. Its mandate is to develop and reach a mutually satisfactory cooperation agreement to support the sustainable development of the communities involved. The working group held ten meetings in 2018. The parties' commitment, diligence and good faith will guide the group as it continues its work.

Malartic Extension Project

Work performed in an environmentally responsible manner

Figure 19 - Locator Map of Existing Facilities and Ongoing Work at the Malartic Mining Site in 2018



The Barnat ground failure and the Buckshot pit were backfilled in 2018

G4-SO1

The Malartic Extension Project (MEP) has two components: extending the Canadian Malartic pit, which is currently being mined, and deviating a section of Highway 117, which is mostly situated on the projected pit's future footprint. It will require investments totalling more than \$300 M.

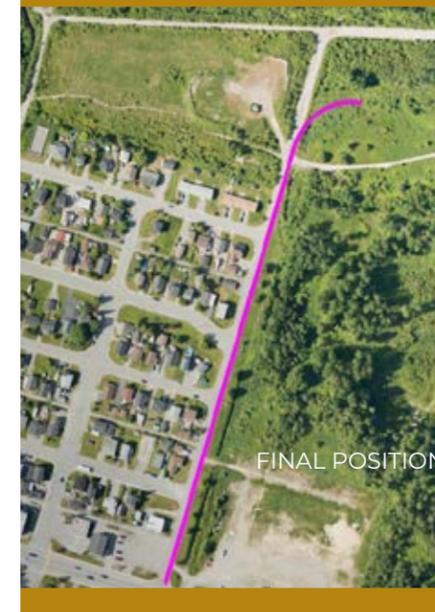
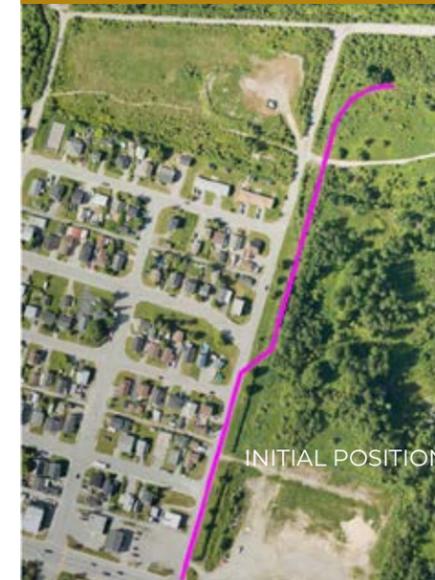
A decree authorizing the MEP was passed in 2017, and work began that same year.

Activities related to the MEP continued in 2018. Work is always carried out in a way that respects the environment, the community and our stakeholders.

MITIGATION MEASURES

In 2018, CMM maintained the mitigation measures introduced in 2017:

- **Temporary acoustic screen**
This screen was installed along Champlain Avenue back in 2017. It aims to reduce noise from work related to the deviation of Highway 117.
- In spring 2018, the acoustic screen was moved from its initial location on a section of Champlain Avenue after an Énergir pipeline was relocated.
- The acoustic screen was moved from its initial position (photo 1) to its final position (photo 2) so that work could be carried out in the Barnat ground failure sector.
- **Water to suppress dust on the Highway 117 deviation work site**
The project team sprays the work site with water when weather conditions are conducive to the dispersion of dust. Should this measure be ineffective, work is modified or stopped to ensure compliance with current standards.
- **Mobile air quality monitoring station**
The MEP team uses this station to monitor air quality at the Highway 117 deviation work site and to adjust work and mitigation measures based on the results obtained. Activities at the Malartic Extension Project have been fully compliant with air quality standards since construction began.
- **Mobile sound monitoring stations**
The MEP team uses these stations to monitor the sound environment at the Highway 117 deviation work site. The stations are placed near work in progress to monitor sound levels in real time. Work at the Malartic Extension Project has been fully compliant with environment noise standards since construction began.





TEAM SYNERGY FOR THE ENVIRONMENT

Raising awareness of the spread of dust

Over the summer, MEP's Environment team developed a campaign to heighten operators' awareness of the dispersion of dust. Four types of signs featuring different messages were clearly posted on the main roads used by the operators.

Coordinating blasting operations

While several surface blasting operations planned for the deviation of Highway 117 meant that the existing highway had to be completely closed, CMM teams worked with the contractor, construction supervisor and the Quebec Ministry of Transportation to implement a procedure to minimize traffic obstruction. By coordinating blasting activities on the highway with those for mining operations, traffic was obstructed for no longer than three minutes. In all, there were 15 blasts in less than three minutes between July 30 and August 9, 2018.

OUR COMMITMENTS



FROM LEFT TO RIGHT :
DAVID THELLEND – FRANÇOIS FORTIN – ARTHUR CIELECKI

"Blasting related to the Highway 117 deviation work site took place to the east of Malartic, on the projected road's right-of-way. Blasting authorizations hinged on several factors, including wind direction. As a matter of fact, a wind rose, adapted for some of the blasts, was presented and approved by the Ministry of the Environment and the Fight against Climate Change. When winds were favourable for both the mine and the work site, blasts were simultaneous. If the winds were not favourable, blasts were cancelled or postponed."

— **David Thellend, Eng.**
Project Manager – Malartic Extension Project

"I supervised and helped to implement the procedure for communication between the contractor doing the work and the mine team in charge of blasting. It was crucial to define parameters, such as wind direction and location in relation to Malartic's urban area, before each blast."

— **François Fortin, Eng.**
Civil Works Superintendent

"Blasting near a town is not easy. I was happy to share the control and monitoring techniques developed for the mine's pit with our MEP colleagues. Together, the drilling-blasting and MEP teams worked to ensure that all blasts complied with the standards and, more importantly, with commitments made to the citizens of Malartic."

— **Arthur Cielecki, Eng.**
Senior Engineer,
Drilling & Blasting

TEMPORARY BRIDGE



FOSSE BUCKSHOT AVANT

BUCKSHOT PIT BEFORE



BUCKSHOT PIT AFTER



BARNAT BEFORE



BARNAT AFTER

OVERHEAD CABLE TELEVISION AND POWER LINE



PROJECT ON SCHEDULE

1. The temporary bridge will be in service until traffic can use Highway 117's new section.
2. The Buckshot pit and the Barnat ground failure were backfilled when both sites were restored to ensure user safety in the region.
3. An auxiliary water treatment system was built on the MEP's site in anticipation of spring run off. The system removes suspended solids that could be in the drainage water coming from excavations at the site.
4. A new overhead cable television and power line was built along the layout of Highway 117's deviation.
5. Drilling and backfilling of former underground workings is expected to be completed by spring 2019.



"We are a small, very tight-knit multidisciplinary team. Each member does their part to firmly move forward with the project. There's a great team effort at CMM and with the various contractors. I'm fortunate to be able to work on site and in an office. I love putting on my boots and going out to see what is going on in order to understand how things work! Good management and the best decisions come from a clear understanding of the work."

— Céline Sperandio, Geo.
Contract Supervisor



LEXICON

Pit: A deposit that is mined at the surface.

Ground failure: In the context of Barnat, ground failure refers to a surface pillar in old underground workings. The failure created surface subsidence in 1963.

Drilling: The cutting or drilling of a hole using a drill rig.

Backfilling: The filling of a cavity, a hole or a pit with granular materials or overburden.

ENVIRONMENTAL MANAGEMENT

The life cycle of products and materials is important in CMM's sustainable development approach. Teams work to improve waste recovery procedures with each new project at the mine.

Recovery

Much of the rock extracted from the ground during the various steps carried out in 2018 was subsequently reused by CMM. The rock obtained by stripping and mining is primarily used to fill in or raise certain sites, which requires vast amounts of backfill. Examples are:

- The Buckshot pit: 496,500 cubic metres of overburden and waste rock were reused.
- The Barnat pit: 818,400 cubic metres of overburden and waste rock were reused.
- Deviation of Highway 117: approximately 200,000 tonnes of waste rock were reused.

Management of Contaminated Soil

Several tens of thousands of cubic metres of contaminated materials have been removed from the site since the project began to ensure the work site's areas are compliant. The contaminated soil is disposed of in accordance with the standards for the mine's tailings pond for use in its restoration.

- 82,773 cubic metres of metal-contaminated soil resulting from previous industrial activities was removed from Highway 117's future layout and the pit extension area.
- 18,680 cubic metres of soil contaminated with invasive alien species

PROGRESSIVE WORK SITE RESTORATION

Some restoration work began on the Highway 117 deviation site as soon as Énergir's natural gas pipeline was relocated. Topsoil needed for rehabilitation of that sector was recovered during stripping that was done during the project. In addition, two types of hydroseeding have already been used in wetlands and on land for optimal restoration.

Continuous Communication and Dialogue with the Community

CMM's Community Relations Office was the site of a coffee meeting held on June 19, 2018, to which citizens of Malartic and Rivière-Héva had been invited to discuss the MEP. Questions raised that evening were primarily related to the deviation of Highway 117, the temporary bridge and the temporary acoustic screen.

Visit by the *Comité d'échanges et de suivi Canadian Malartic (CES-CM)*

As part of their meetings, CES-CM's members visited the MEP site for an update on work progress and the work's impact on the quality of life of Malartic residents. For an account of the visit, go to cescm.ca.





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