

Québec Mining Activity Report 2018

Chapter 5 – Overview of the Quebec mining activities

| Status | SNRC/Administrative region | Mine or project | Average number of jobs for active mines only | Type of operation | Substances | Proven and probable reserves | Measured and indicated resources | Presumed resources | Resource calculation date | Years of operation | Project description | Anticipated nominal operating capacity | Highlights |
|-------------|----------------------------|---|--|-------------------------------------|------------|------------------------------|----------------------------------|-----------------------|---------------------------|------------------------|---------------------|--|---|
| Active mine | 33A16/Nord-du-Québec | Renard Stornoway Diamond Corporation www.stornowaydiamonds.com | 490 | Underground and open-pit operations | Diamond | 33.42 Mt 66.50 c/t | 67.12 Mt 64.85 c/t | 76.23 Mt 43.00 c/t | 2015-09-24 | 2017-2031 | | | |
| Active mine | 31G11/Outaouais | Othmer Dentsply Canada www.dentsply.ca | | Open-pit operations | Feldspar | 0.24 Mt 10.00% | | 18.00 Mt 10.00% | 2000-02-01 | 2002- | | | |
| Active mine | 23J15/Côte-Nord | DSO Tata Steel Minerals Canada www.tatasteelcanada.com | 200 | Open-pit operations | Iron | | | | | 2017-2032 1954-1982 | | | 2018: Improvement of the wet processing plant |
| Active mine | 23B06/Côte-Nord | Fire Lake ArcelorMittal Mining Canada G.P. www.transformerlavenir.com | 120 | Open-pit operations | Iron | | | | | 2006-2045 1977-1981 | | | |
| Active mine | 23B14/Côte-Nord | Lac Bloom Quebec Iron Ore www.mineraiferquebec.com | 490 | Open-pit operations | Iron | 411.75 Mt 29.99% Fe | *911.60 Mt 29.71% Fe | 80.40 Mt 25.60% Fe | 2016-11-15 | 2018-2033 2010-2014 | | | 2018-07-01: Commercial production achieved |

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| Active mine | 23B11/Côte-Nord | Mont-Wright ArcelorMittal Mining Canada G.P. www.transformerlavenir.com | 1920 | Open-pit operations | Iron | 2 114 Mt 30.11% Fe | | 1 877 Mt 29.10% Fe | 2017-12-31 | 1974-2045 | Water treatment basin Planned investment: \$458 million Planned operating life: 20 years | | 2018-08-15: Global provincial authorization certificate obtained |
| Active mine | 31J05/Laurentides | Lac-des-Îles Imerys Graphite & Carbon Canada www.imerys-graphite-and-carbon.com | 60 | Open-pit operations | Graphite | | | | | 1989-2022 | | | |
| Active mine | 32C05/Abitibi-Témiscamingue | Lithium Amérique du Nord North American Lithium na-lithium.com | 220 | Open-pit operations | Lithium | 20.50 Mt 0.94% Li ₂ O | 39.30 Mt 1.04% Li ₂ O | 18.40 Mt 1.06% Li ₂ O | 2017-05-01 | 2018-2032 1956-1965 | Reopening of mine and concentrator Planned investment: \$76 million Planned operating life: 14 years | | 2018-02-01: Start of commercial production 2018-07-10: Federal government authorization obtained |
| | | | | | | | | | | | Reopening of the hydrometallurgical plant Planned investment: \$241.9 million | | |
| Active mine | 31O16/Mauricie | Lac Letondal Imerys Mica Suzorite www.imerys-perfmins.com | 30 | Open-pit operations | Mica | 27 Mt 85% | | | 2012-12-06 | 1974-2074 | | | |

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| Active mine | 35H11/Nord-du-Québec | Nunavik Nickel Canadian Royalties www.canadianroyalties.com | 330 | Open-pit operations | Nickel Cobalt Cooper Palladium Platinum | | | | 2014-2029 | | | | |
| Active mine | 35H12/Nord-du-Québec | Raglan Glencore Canada Corporation www.glencore.com | 900 | Underground and open-pit operations | Nickel Copper Cobalt Palladium Platinum | 11.27 Mt 2.79% Ni 0.76% Cu 0.06% Co 2.01 g/t Pd 0.82 g/t Pt | *20.70 Mt 3.34% Ni 0.95% Cu 0.07% Co 2.37 g/t Pd 0.96 g/t Pt | 14.00 Mt 3.00% Ni 0.90% Cu 0.07% Co 2.20 g/t Pd 0.90 g/t Pt | 2018-12-31 | 1997-2040 | Phase 2 expansion Planned investment: \$1,000 million | | |
| Active mine | 22D11/Saguenay-Lac-St-Jean | Niobec Niobec www.niobec.com | 420 | Underground operations | Niobium | 416.42 Mt 0.41% Nb ₂ O ₅ | 288.68 Mt 0.43% Nb ₂ O ₅ | 61.09 Mt 0.38% Nb ₂ O ₅ | 2015-01-26 | 1976-2045 | | | |
| Active mine | 32C04/Abitibi-Témiscamingue | Beaufor Monarch Gold Corporation www.monarquesgold.com | 120 | Underground operations | Gold | 0.14 Mt 6.83 g/t Au | 0.35 Mt 7.67 g/t Au | 0.05 Mt 8.34 g/t Au | 2017-09-30 | 2002-2022 1996-2001 1939-1942 | | | |
| Active mine | 32D01/Abitibi-Témiscamingue | Canadian Malartic Canadian Malartic Partnership www.canadianmalartic.com | 1200 | Open-pit operations | Gold Silver | 157.66 Mt 1.10 g/t Au | 18.45 Mt 1.48 g/t Au | 5.38 Mt 1.23 g/t Au | 2018-12-31 | 2011-2028 1933-1965 1927-1929 | Expansion Barnat and Jeffrey deposits and deviation of Highway 117 Planned investment: \$209 million Planned operating time: 6 years | | In construction |
| | | | | | | | | | | | Expansion Odyssey North and South Planned investment: \$500 million Planned operating life: 10 years | | 2018-01-22: Submission of the project notice for the impact study to the provincial and federal governments. 2018-11-28: Authorization from the provincial government obtained |

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| Mine active | 32E11/Nord-du-Québec | Casa Berardi Hecla Québec www.hecla-mining.com | 1000 | Underground and open-pit operations | Gold | 21.54 Mt 2.73 g/t Au | 11.57 Mt 3.27 g/t Au | 5.64 Mt 3.60 g/t Au | 2018-12-31 | 2007-2034 1988-1997 | | | |
| Mine active | 32D06/Abitibi-Témiscamingue | Elder Abcourt Mines www.abcourt.com | 80 | Underground operations | Gold | | 0.64 Mt 6.39 g/t Au | 0.55 Mt 5.93 g/t Au | 2018-05-31 | 2016-2025 1984-1989 1947-1966 | | | |
| Mine active | 33C09/Nord-du-Québec | Éléonore Opinaca Mines Ltd. www.goldcorp.com | 1140 | Underground operations | Gold | 17.79 Mt 5.68 g/t Au | 3.18 Mt 5.04 g/t Au | 3.19 Mt 5.76 g/t Au | 2018-06-30 | 2015-2027 | | | |
| Mine active | 32C04/Abitibi-Témiscamingue | Goldex Agnico Eagle Mines Ltd. www.agnicoeagle.com | 320 | Underground operations | Gold | 6.53 Mt 1.54 g/t Au | 30.42 Mt 1.78 g/t Au | 31.08 Mt 1.59 g/t Au | 2011-12-31 | 2013-2025 2008-2011 | | | |
| Mine active | 32D08/Abitibi-Témiscamingue | LaRonde Agnico Eagle Mines Ltd. www.agnicoeagle.com | 820 | Underground operations | Gold Zinc Copper Silver | 25.81 Mt 4.13 g/t Au 0.84% Zn 0.25% Cu 17.97 g/t Ag | 11.67 Mt 2.48 g/t Au 0.97% Zn 0.16% Cu 25.34 g/t Ag | 8.48 Mt 4.59 g/t Au 0.63% Zn 0.24% Cu 14.31 g/t Ag | 2018-12-31 | 1988-2026 | | | |
| Mine active | 32F08/Nord-du-Québec | Lac Bachelor Bonterra Resources www.bonterraresources.com | | Underground operations | Gold | 0.84 Mt 7.38 g/t Au | 0.84 Mt 7.79 g/t Au | 0.43 Mt 6.52 g/t Au | 2011-04-26 | 2013-2019 1982-1989 | | | Closing expected in 2019 |
| Mine active | 32F12/Nord-du-Québec | Vezza Procon Holding | 140 | Underground operations | Gold | | 1.24 Mt 6.62 g/t Au | 0.44 Mt 4.90 g/t Au | 2013-05-06 | 2016-2021 2012-2013 1995-1997 | | | |

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| Mine active | 32D07/Abitibi-Témiscamingue | Westwood IAMGOLD Corporation www.iamgold.com | 850 | Underground operations | Gold | 4.94 Mt 7.61 g/t Au | *4.18 Mt 11.07 g/t Au | 5.49 Mt 9.50 g/t Au | 2018-12-31 | 2013-2035 | | | |
| Mine active | 11N12/Gaspésie-Îles de la Madeleine | Mines Seleine K+S Windsor Salt Ltd. www.windsorsalt.com | 150 | Underground operations | Salt | | | | | 1983-2033 | | | |
| Mine active | 12L11/Côte-Nord | Lac Tio Rio Tinto Iron and Titanium www.riotinto.com | 275 | Open-pit operations | Titanium | 119 Mt 83.20% Ti | 19 Mt 84.60% Ti | | 2016-12-31 | 1950-2051 | East Expansion Planned investment: \$50 million Planned operating life: 31 years | | |
| Mine active | 32F12/Nord-du-Québec | Bracemac-McLeod Glencore Canada Corporation www.glencore.com | 250 | Underground operations | Zinc Copper Silver Gold | 2.70 Mt 6.17% Zn 0.87% Cu 26.33 g/t Ag 0.57 g/t Au | *3.70 Mt 6.57% Zn 0.96% Cu 28.16 g/t Ag 0.56 g/t Au | | 2018-12-31 | 2013-2022 | | | |
| Mine active | 32F02/Nord-du-Québec | Langlois (Grevet) Nyrstar Langlois www.nyrstar.com | 270 | Underground operations | Zinc Copper Silver Gold | 2.34 Mt 7.23% Zn 0.59% Cu 36.48 g/t Ag 0.06 g/t Au | *5.39 Mt 8.00% Zn 0.52% Cu 36.27 g/t Ag 0.07 g/t Au | 1.78 Mt 6.11% Zn 0.38% Cu 30.71 g/t Ag 0.07 g/t Au | 2017-12-31 | 2012-2023 2007-2008 1997-2000 1996-1996 | | | |
| Total: 26 | | | | | | | | | | | | | |
| Développement | 32O12/Nord-du-Québec | Whabouchi Nemaska Lithium www.nemaskalithium.com | | Underground and open-pit operations | Lithium | 24.00 Mt 1.53% Li ₂ O | *37.60 Mt 1.57% Li ₂ O | 16.06 Mt 1.38% Li ₂ O | 2017-11-24 | | 1- New mining site Planned investment: \$459 million Planned operating life: 33 years | 213,000 t/y of spodumene concentrate (treated on the mining site) | In construction |

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| | | | | | | | | | | | 2- Hydrometallurgical plant Planned investment: \$790 million Planned operating life: 33 years | | 2018-06-01: Start of construction |
| Développement | 32C04/Abitibi-Témiscamingue | Lamaque Eldorado Gold Corporation www.eldoradogold.com | | Underground operations | Gold | 4.09 Mt 7.25 g/t Au | *5.08 Mt 8.29 g/t Au | 8.40 Mt 6.78 g/t Au | 2018-09-30 | 2019-2027 | New mining site Planned investment: \$364 million Planned operating life: 10.3 years | | Upgrading of the treatment plant |
| | | Total: 2 | | | | | | | | | | | |
| Activity | 22J07/Côte-Nord | Arnaud Mine Arnaud www.minearnaud.com | | Open-pit operations | Apatite | 342.60 Mt 4.30% P ₂ O ₅ | *545.49 Mt 4.00% P ₂ O ₅ | 44.64 Mt 3.36% P ₂ O ₅ | 2014-08-01 | | New mining site Planned investment: \$768 million Planned operating life: 32 years | 1,200,000 t/y of apatite concentrate (treated on the mining site) | |
| Activity | 22E15/Saguenay-Lac-St-Jean | Lac à Paul Arianne Phosphate www.arianne-inc.com | | Open-pit operations | Apatite Ilmenite | 472.09 Mt 6.88% P ₂ O ₅ | *702.70 Mt 7.16% P ₂ O ₅ 7.71% TiO ₂ | 26.01 Mt 6.58% P ₂ O ₅ 6.39% TiO ₂ | 2015-02-18 | | New mining site, including construction of a road (220 km) and a wharf on the Saguenay River Planned investment: \$1,275 million Planned operating life: 26 years | 3,000,000 t/y of apatite concentrate (treated on the mining site) | |
| Activity | 32G16/Nord-du-Québec | BlackRock BlackRock Metals www.blackrockmetals.com | | Open-pit operations | Iron Vanadium Ilmenite | | | | | | New mining site Planned investment: \$300 million Planned operating life: 42 years | 830,000 t/y of iron and vanadium concentrate (treated on the mining site) | |

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| | | | | | | | | | | | Pyrometallurgy plant Planned investment: \$640 million Planned operating life: 42 years | | 2018-07-17: Provincial public hearings |
| Activity | 32H13/Nord-du-Québec | Lac Doré Vanadium VanadiumCorp Resource www.vanadiumcorp.com | | Open-pit operations | Iron Ilmenite Vanadium | | | 99.10 Mt 0.28% V ₂ O ₅ | 2015-04-10 | | New mining site Planned investment: \$321 million | 876,000 t/y of iron and vanadium concentrate (treated on the mining site) | |
| Activity | 22N03/Côte-Nord | Lac Guéret Mason Graphite www.masongraphite.com | | Open-pit operations | Graphite | 4.74 Mt 27.78% Cg | *65.54 Mt 17.19% Cg | 17.61 Mt 17.20% Cg | 2018-12-01 | | New mining site Planned investment: \$258 million Expected operating time: 25 years | 51,900 t/y of graphite (treated at Baie-Comeau) | 2018-05-16: Global provincial authorization certificate obtained |
| Activity | 31I12/Lanaudière | Matawinie Nouveau Monde Graphite nouveaumonde.ca | | Open-pit operations | Graphite | 59 Mt 4.35% Cg | *95.80 Mt 4.28% Cg | 14 Mt 4.19% Cg | 2018-07-10 | | New mining site Planned investment: \$283.4 million Expected operating time: 25 years | 99,800 t/y of graphite (treated on the mining site) | 2018-12-10: Publication of the feasibility study 2018-01-18: Submission of the project notice for the impact study to the provincial government |
| Activity | 31G10/Laurentides | Miller Canada Carbon www.canadacarbon.com | | Open-pit operations | Graphite | | 2.65 Mt 0.80% Cg | 7.56 Mt 0.77% Cg | 2016-11-23 | 1845-1900 | New mining site Planned investment: \$44.4 million Expected operating time: 19 years | 1,650 t/y of graphite (treated on the mining site) | |
| Activity | 32D08/Abitibi-Témiscamingue | Authier Sayona Québec www.sayonaquebec.com | | Open-pit operations | Lithium | 12.10 Mt 1.00% Li ₂ O | *17.18 Mt 1.01% Li ₂ O | 3.76 Mt 0.98% Li ₂ O | 2018-08-24 | | New mining site Planned investment: \$100 million Planned operating life: 14 years | 96,000 t/y of spodumene concentrate (treated on the mining site) | 2018-09-24: Publication of the feasibility study |

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| Activity | 33C01/Nord-du-Québec | Rose Critical Elements Corporation www.ceccorp.ca | | Open-pit operations | Lithium Tantalum | 26.80 Mt 0.85% Li ₂ O 133.00 g/t Ta ₂ O ₅ | *31.90 Mt 0.93% Li ₂ O 148.00 g/t Ta ₂ O ₅ | 2.80 Mt 0.82% Li ₂ O 145.00 g/t Ta ₂ O ₅ | 2017-10-20 | | New mining site Planned investment: \$341 million Planned operating life: 17 years | 236,500 t/y of spodumene concentrate 430 t/y of tantalum oxide (treated on the mining site) | Examination of the impact study in progress |
| Activity | 32D09/Abitibi-Témiscamingue | Dumont Nickel Magneto Investments Limited Partnership www.rncminerals.com | | Open-pit operations | Nickel Cobalt Palladium Platinum | 1 178.60 Mt 0.27% Ni 107.22 g/t Co 0.02 g/t Pd 0.01 g/t Pt | 1 665.60 Mt 0.26% Ni 107.34 g/t Co 0.02 g/t Pd 0.01 g/t Pt | 499.80 Mt 0.26% Ni 101.00 g/t Co 0.01 g/t Pd 0.01 g/t Pt | 2013-04-30 | | New mining site Planned investment: \$1,268 million | 180,000 t/y of nickel concentrate (treated on the mining site) | |
| Activity | 32C04/Abitibi-Témiscamingue | Akasaba Ouest Agnico Eagle Mines Ltd. www.agnicoeagle.com | | Open-pit operations | Gold Copper | 4.94 Mt 0.89 g/t Au 0.50% Cu | 2.48 Mt 0.66 g/t Au 0.40% Cu | | 2016-12-31 | | New mining site Planned investment: \$51.1 million Planned operating time: 6 years | 777,600 g/y of gold (processed at the Goldex and LaRonde plants) | 2018-06-28: Global provincial authorization certificate obtained |
| Activity | 32B13/Abitibi-Témiscamingue | Barry Bonterra Resources www.bonterraresources.com | | Underground and open-pit operations | Gold | | 2.05 Mt 5.84 g/t Au | 2.74 Mt 5.14 g/t Au | 2019-05-24 | 2008-2010 | Reopening of the mine site Planned investment: \$8.5 million Planned operating time: 9 years | 668 300 g/y of gold (processed at the Bachelor plant) | 2018-09-24: Acquisition by Bonterra Resources |
| Activity | 32C03/Abitibi-Témiscamingue | Croinor Gold Monarch Gold Corporation www.monarquesgold.com | | Underground operations | Gold | 0.60 Mt 6.67 g/t Au | 0.80 Mt 9.12 g/t Au | 0.16 Mt 7.42 g/t Au | 2015-11-06 | 2003-2005 1996-1997 1944-1948 | Reopening of the mine site Planned investment: \$50.7 million Expected operating time: 2.5 years | 1,261,000 g/y of gold (processed at the Beacon plant) | 2018-03-22: Publication of the pre-feasibility study |
| Activity | 32E09/Nord-du-Québec | Douay Maple Gold Mines www.maplegoldmines.com | | Underground and open-pit operations | Gold | | 9.38 Mt 1.59 g/t Au | 84.15 Mt 1.02 g/t Au | 2018-02-09 | | New mining site Planned investment: \$73.3 million | 1,244,000 g/y of gold (processed at a plant in the region) | |

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| Activity | 33B04/Nord-du-Québec | Eau Claire Eastmain Resources www.eastmain.com | | Underground and open-pit operations | Gold | | 4.29 Mt 6.18 g/t Au | 2.38 Mt 6.53 g/t Au | 2018-02-04 | | New mining site Planned investment: \$175 million Planned operating life: 12 years | 2,463,000 g/y of gold | 2018-02-04: Publication of the preliminary economic assessment |
| Activity | 32L02/Nord-du-Québec | Fenelon Wallbridge Mining Company www.wallbridgemining.com | | Underground operations | Gold | | *0.09 Mt 13.21 g/t Au | 0.01 Mt 9.15 g/t Au | 2016-07-05 | 2004-2004 2001-2001 | Reopening of the mine site | 582,000 g/y of gold | |
| Activity | 32D03/Abitibi-Témiscamingue | Granada Granada Gold Mine www.granadagoldmine.com | | Open-pit operations | Gold | | 21.58 Mt 1.17 g/t Au | 10.39 Mt 4.56 g/t Au | 2017-05-16 | 1999-2002 1996-1996 1994-1994 1930-1935 | Reopening of the mine site | | |
| Activity | 32D06/Abitibi-Témiscamingue | Horne 5 Falco Resources www.falcores.com | | Underground operations | Gold Zinc Copper Silver | 80.90 Mt 1.44 g/t Au 0.78% Zn 0.17% Cu 14.16 g/t Ag | 91.20 Mt 1.55 g/t Au 0.88% Zn 0.18% Cu 14.89 g/t Ag | 21.50 Mt 1.44 g/t Au 0.71% Zn 0.20% Cu 23.04 g/t Ag | 2017-07-26 | | New mining site Planned investment: \$1,062 million Planned operating life: 15 years | 7,340,000 g/y of gold (treated on the mining site) | Examination of the impact study in progress |
| Activity | 32G04/Nord-du-Québec | Lac Windfall Osisko Mining www.miniereosisko.com | | Underground operations | Gold | | 2.87 Mt 8.17 g/t Au | 10.35 Mt 7.11 g/t Au | 2018-11-27 | | New mining site (Lac Windfall, Osborne-Bell; processing plant at Lebel-sur-Quévillon) Planned investment: \$397.3 million Planned operating life: 8.1 years | 3,300,000 g/y of gold (processed on site or off site) | 2018-07-12: Publication of the preliminary economic assessment |
| Activity | 32D01/Abitibi-Témiscamingue | O'Brien Radisson Mining Resources www.radissonmining.com | | Underground operations | Gold | | 1.13 Mt 6.45 g/t Au | 1.16 Mt 5.22 g/t Au | 2018-03-20 | 1933-1981 | Reopening of the mine site Planned investment: \$36.8 million Planned operating time: 4 years | 950,000 g/y of gold (contracted at a mill in the region) | |

Definition:

Active mine: Mining site at which production has reached at least 60% of nominal capacity

Development: From construction to the end of start-up (running in)

Activity: From the first preliminary economic assessment to the decision to build

Note:

1. The data in this table were taken from information published by the companies.
2. The distinction between proven and probable reserves and between measured, indicated and presumed resources, is defined in accordance with Canadian standard 43-101.
3. Resources preceded by an asterisk (*) include reserves.

Key:

| Substances | |
|--------------------------------|-------------------------|
| Ag | Silver |
| Au | Gold |
| Co | Cobalt |
| Cu | Copper |
| Fe | Iron |
| HREO | Heavy rare earth oxides |
| Li ₂ O | Lithium oxide |
| LREO | Light rare earth oxides |
| NaCl | Sodium chloride |
| Nb ₂ O ₅ | Niobium oxide |
| Ni | Nickel |
| Pb | Lead |
| Pd | Palladium |
| Pt | Platinum |
| P ₂ O ₅ | Phosphorus oxide |
| Ta ₂ O ₅ | Tantalum oxide |
| TiO ₂ | Titanium oxide |
| TREO | Rare earth oxides |
| V ₂ O ₅ | Vanadium oxide |
| Y ₂ O ₃ | Yttrium oxide |
| Zn | Zinc |

| Measurement units | |
|-------------------|-------------------------|
| c/t | Carat/ton |
| g/t | Gramme per ton |
| Mt | Millions of metric tons |
| M\$ | Millions of dollars |
| t/y | Metric tons per year |
| % | Percentage |