

**Goldcorp Musselwhite Mine - Public Summary Report**

The Province of Ontario developed a Toxics Reduction Strategy that included the introduction of the Toxics Reduction Act, 2009 to reduce toxic substances created or used in manufacturing processes and to better inform Ontarians about toxic chemicals in the air, water, land and consumer products. The promotion of positive health and environmental outcomes is a basic expectation of a responsible, democratically elected government and a healthy economy provides the resources to support such positive outcomes.

Ontario is blessed with a geology that provides a huge mineral abundance. The mining and refining of these riches has brought Ontarians wealth and supported us for generations. The goods produced from our minerals provide the essentials we rely on in food, medicine, energy, construction, transportation and communication, among our other daily needs. In addition, mining provides the building blocks we require to meet the growing global demand for greener products and services.

The concept of sustainability has been incorporated into the mining practices in Ontario and informs the management of waste streams that our industry produces. When it comes to "toxics", it is important to remember that metals can only be mined or recycled. The ore that is mined essentially contains the periodic table of elements, some of which have been classified as "toxics" under the Toxics Reduction Act. While there is no opportunity to reduce the levels of these naturally occurring substances, nor should there be a desire to eliminate highly useful and recyclable metals from our economy, there are opportunities for leadership on improving health outcomes for Ontarians when it comes to chemical exposures.

While, for mining, this primarily means dealing with end-of-pipe emissions, there may be some areas where the adoption of safer alternatives and green technologies is feasible. As a first step in implementing this strategy, Goldcorp Musselwhite Mine has completed an inventory report of applicable substances on which to focus its toxics reduction planning efforts. A summary of the report along with a certification statement from Peter Gula, Mine General Manager, is provided on the following page.

**Facility Information:** Goldcorp Canada Ltd.  
Musselwhite Mine  
PO Box 7500  
Thunder Bay, Ontario  
P7B 6S8

NPRI ID: 5656  
MECP ID: 7196  
D\_U\_N\_S #: 249803982  
Federal Business #: 887718682  
CDN SIC code: 0611 – Gold Mines  
US SIC code: 1041 – Gold Ores  
NAICS code: 212220 – Gold & Silver Ore Mining

**Parent Company:** Newmont Goldcorp  
Park Place  
Suite 3400-666 Burrard St  
Vancouver, British Columbia  
V6C 2X8

Federal Business #: 887718682  
% Ownership: 100%

Substance Accounting Summary Table for 2018

Toxic Substance	CAS No.	Unit	Use	Creation	Contained in Product
Arsenic	N/A-2	kg	>10,000 to 100,000	0 to 1	0 to 1
Cadmium	N/A-3	kg	>10 to 100	0 to 1	0 to 1
Chromium	N/A-4	tonnes	>100 to 1,000	0 to 1	0 to 1
Cobalt	N/A-5	tonnes	>10 to 100	0 to 1	0 to 1
Copper	N/A-6	tonnes	>100 to 1,000	0 to 1	0 to 1
Lead	N/A-8	tonnes	>100,000 to 1,000,000	0 to 1	0 to 1
Manganese	N/A-9	tonnes	>100 to 1,000	0 to 1	0 to 1
Nickel	N/A-10	tonnes	>10 to 100	0 to 1	0 to 1
Phosphorus	N/A-17	tonnes	>100 to 1,000	0 to 1	0 to 1
Vanadium	7440-62-2	tonnes	>10 to 100	0 to 1	0 to 1
Zinc	N/A-14	tonnes	>10 to 100	0 to 1	0 to 1
Selenium	N/A-12	kg	>1,000 to 10,000	0 to 1	0 to 1
Mercury	N/A-15	kg	>1 to 10	0 to 1	0 to 1
Antimony	N/A-1	tonnes	0 to 1	0 to 1	0 to 1
Silver	N/A-19	kg	0 to 1	0 to 1	0 to 1
Thallium	N/A-18	tonnes	>100 to 1,000	0 to 1	0 to 1
Cyanides	N/A-7	tonnes	>100 to 1,000	0 to 1	0 to 1
Hydrochloric acid	7647-01-0	tonnes	—	0 to 1	0 to 1
Ammonia (Total)	N/A	tonnes	0 to 1	>10 to 100	0 to 1
Nitrate Ion	N/A-11	tonnes	0 to 1	>10 to 100	0 to 1
Carbon Monoxide	630-08-0	tonnes	0 to 1	>100 to 1,000	N/A
Oxides Of Nitrogen (Expressed As NO2)	11104-93-1	tonnes	0 to 1	>100 to 1,000	N/A
PM - Particulate Matter	N/A-M08	tonnes	0 to 1	>10 to 100	N/A
PM10 - Particulate Matter <=10 Micrometers	N/A-M09	tonnes	0 to 1	>10 to 100	N/A
PM2.5 - Particulate Matter <=2.5 Micrometers	N/A-M10	tonnes	0 to 1	>10 to 100	N/A

**Certification:** I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility identified above are accurate, based on reasonable estimates using available data. The data for the facility I represent are hereby submitted to the NPRI and TRA programs using the Single Window Reporting Application. I also acknowledge that the data will be made public.

Don Burke, Mine General Manager

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*Don Burke*  
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