

Water Quality

PolyMet Mining's NorthMet Project will meet or exceed applicable federal and state water quality standards and regulations, including the strict Minnesota sulfate standard for wild rice. The water it discharges back into the environment will be both swimmable and fishable.

Will PolyMet pollute the Boundary Waters?

 No. And no other watershed either. The PolyMet project is in the Lake Superior watershed so none of the treated water that will be discharged from the site will ever enter the Boundary Water Canoe Area Wilderness lakes or streams. PolyMet's commitment to protecting water quality and complying with all applicable water quality standards remains steadfast regardless of the watershed.

Will PolyMet operations release acidic water (acid rock drainage) into the environment?

- No. At a news conference Dec. 6, 2013, the Minnesota Department of Natural Resources explicitly stated that the project will not create acid rock drainage. Almost all the water PolyMet will manage on its property is in the pH neutral range neither acidic or basic including all the water in the tailings basin, the mine pit and water from the largest and only permanent stockpile on the mine site. The small portion of waste rock that has the potential to generate acidic water will be temporarily stored onsite on a lined pad then returned to the open pit as backfill during reclamation. There, it will be covered by water and no longer able to generate acid. Under no circumstance will water that is discharged from the site either during operations or after closure be acidic.
- Rainwater that comes in contact with any waste rock, tailings or the mine will be collected, contained, reused to the extent possible in the processing operations, and eventually treated before it is ever discharged from the property.

Will PolyMet be protective of wild rice?

• The project will meet the strict Minnesota standard for wild rice that limits sulfate to 10 milligrams per liter. By comparison, Minnesota's drinking water standard for sulfate is 250 mg/L. PolyMet will build and operate a water treatment facility on site that uses membrane filtration to remove sulfates and metals from any water before it's discharged into the environment during operations and closure. The company built and operated a similar plant as a pilot that successfully treated about 3 million gallons of water from the project site to demonstrate to regulators it could meet the wild rice standard.

Will PolyMet release mercury into the environment?

All water on the PolyMet project site will have low concentrations of mercury, and any
water discharges will comply with the Great Lakes Initiative standard of 1.3 nanograms per
liter for mercury. This is about eight times cleaner than the rainwater (about 10 ng/L) that
falls on the site and three times cleaner than what is found in natural runoff from the
watershed.

Besides water treatment, what other methods will PolyMet use to protect water quality?

• The project is designed to minimize the potential for negative environmental effects to the watershed. Extensive monitoring began years ago, will continue through construction and operation and extend long after operations cease to ensure the engineered controls work as expected. In the unlikely event a system fails, there are backup systems and controls already identified that will be deployed to ensure the operation remains in compliance with environmental standards.

- PolyMet has already collected a tremendous amount of monitoring data using a number of
 wells located strategically throughout the plant and mine site. This data today helps inform
 decisions on what types of protections will be required. These same wells, and more, will be
 used during operations and long after closure to ensure any potential issues are caught and
 addressed long before they could ever trigger an environmental violation. Monitoring wells
 are like radar for an airplane they are designed to identify and stop a problem before it
 gets out of hand.
- One of the engineering controls is cutoff walls think of them as impermeable dams that
 extend underground from the surface to bedrock -- that will be constructed around a large
 portion of the tailings impoundment and permanent waste rock stockpile to stop water
 from migrating off-site.
- Water control and treatment methods have been used successfully in mining and many other industrial and municipal applications for decades. They will be used at the PolyMet site to meet all applicable water quality requirements.