

COMMUNITY ENVIRONMENTAL MONITORING PROGRAM

## Salmon Trout River WATERSHED MANAGEMENT PLAN Water Quality Protection, Habitat Restoration and Pollution Prevention Supporting the recommendations of the Lake Superior Binational Program Provided by the Superior Watershed Partnership Funded through the Michigan Department of Environmental Quality and the US Environmental Protection Agency

Carl Lindquist, executive director of the Superior Watershed Partnership, left, talks at a press conference in Marquette Thursday about the new formal agreements between his organization, Rio Tinto and the Marquette County Community Foundation to independently monitor the Rio Tinto Eagle Mine. Also pictured, from left, Simon Nish of Rio Tinto, Mark Canale of the foundation and Jerry Maynard, a spokesman for the monitoring program.

(Journal photo by Matt Keiser)



# WATCHDOG

Rio Tinto joins with local groups for environmental monitoring



A worker drills the tunnel to the Rio Tinto Eagle Mine in Michigamme Township. A new community environmental monitoring initiative announced Thursday will monitor activities at the mine, the Humboldt Mill and along associated transportation routes. Rio Tinto will contribute \$300,000 to the effort each year. (Rio Tinto photo)



RioTinto

Provide Funding for Independent Monitoring



Independent Monitoring Program, Community Outreach & Input, Share Data





## Rio Tinto Eagle Mine Community Environmental Monitoring Program Agreement

By and between

Kennecott Eagle Minerals (doing business as Rio Tinto Eagle Mine)

And

Superior Watershed Partnership

Funded through the Marquette County Community Foundation

#### Community Environmental Monitoring Program Non-Endowed Fund Agreement

Between

The Marquette County Community Foundation

And

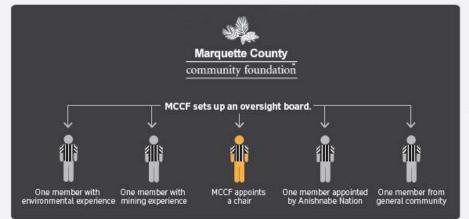
Kennecott Eagle Minerals Company (doing business as Rio Tinto Eagle Mine)

## Community Environmental Monitoring of the Rio Tinto Eagle Mine

Rio Tinto Eagle Mine already has State of Michigan regulatory oversight. In addition, independant third-party monitoring provides community oversight of the mine's environmental performance. This is how it works:







Funds Superior Watershed Partnership.

Oversight of monitoring program implementation.

Dispute resolution.

#### RioTinto Eagle Mine

State of Michigan regulatory oversight. Transparency and community reporting.

Provides funds to pay for Community Monitoring





Checking what Eagle already does. New monitoring.





# Community Environmental Monitoring Program (CEMP)

## **Verification Monitoring**

Verify permit requirements

- Observation
- Procedures Review
- Trends Analysis
- Duplicate or Split Sampling

## **Additional Monitoring**

Non-permit Required Such as:

- Air quality
- Flora/Fauna
- Transportation Route
- Public Recommendations

## **Monitoring All Phases**

Construction – Happening Now Operation – Mine Now Scheduled to Begin Production in Late 2014 Reclamation – After the Mine Ceases Operations

#### **CEMP Web-Based Public Data Portal**



Lithium

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### Community Environmental Monitoring Project

Independent Evaluation of Rio Tinto's Eagle Mine

DATA EXPLORATION GROUNDWATER CHEM WTP EFFLUENT DATA DOWNLOAD ■ Zoom Out GWDP Monitoring Location Query Choose wells: Select period: O All Full record Compliance Baseline (May 2008-Sept 2011) Background Operational (Oct Choose: 2011-present) All samples Above permit levels (only) OAL026AD apply to compliance wells but also shown for background wells) Explore parameters (group names in blue): Metals Query results: Above Permit Min Max Units Location Parameter Sampled Level Antimony ug/L Arsenic ug/L Barium ug/L Beryllium ug/L Boron ug/L Cadmium 0 ug/L Chromium ug/L 1.1 1.6 Cobalt 0 ug/L Copper ug/L 1.2 3.7 Iron 0 43 ug/L Lead ug/L

ua/L



PROVIDE FEEDBACK



## Community Environmental Monitoring Program Independent Evaluation of Rio Tinto's Eagle Mine



#### Latest

#### Follow-up Monitoring Confirms Uranium Controlled at Mine Site

Marquette, MI – April 8, 2013
Follow-up monitoring conducted by the Superior
Watershed Partnership (SWP) confirms that the
trace amounts of uranium recently detected at the
Rio Tinto Eagle Mine are controlled on the mine
site. The SWP Community Environmental
Monitoring Program (CEMP) recently conducted
additional monitoring that confirmed the water
treatment plant is effectively removing uranium
before the water is discharged or recycled back
into the mining process.

#### Read More

#### CEMP Detects Uranium at Rio Tinto Eagle Mine

Under the Community Environmental Monitoring Program (CEMP) agreement announced in October

### LSWP shows laudable desire for independence

April 15, 2013

The Mining Journal











Two recent issues addressed by the Lake Superior Watershed Partnership have demonstrated greatly desired independence in the group's Community Environmental Monitoring of Rio Tinto's mining activities in Marquette County.

Despite the program's indirect funding by the mining company -which many people have been critical of- recent partnership commentary on an amendment to Rio Tinto's air quality permit and the group's detection and reporting of concentrations of uranium found in water samples at the bottom of a rock storage area at the Eagle Mine show the partnership is taking its role as an environmental watchdog over Rio Tinto's mining activities seriously.

This is a positive step, which should help transform at least a few critics into supporters.

At a recent public hearing on the air quality permit, the partnership offered several important and helpful comments, including suggestions on improving computer modeling of pollution dispersion by using data sets more germane to the local area, including the Yellow Dog Plains, where the mine is located.

The Michigan Department of Environmental Quality will issue a decision soon on the permit amendment, taking written and verbal comments from the public, including those from the partnership, into account.

Recently, small concentrations of uranium were found in water in the lining of the mine's Temporary Development Rock Storage Area at the mine. Partnership technicians were sampling water from a sump to compare with prior test samples taken by Rio Tinto.

A laboratory in Indiana processing the water samples for the partnership, found the uranium and reported its occurrence as required by law for concentrations exceeding safe standards for



