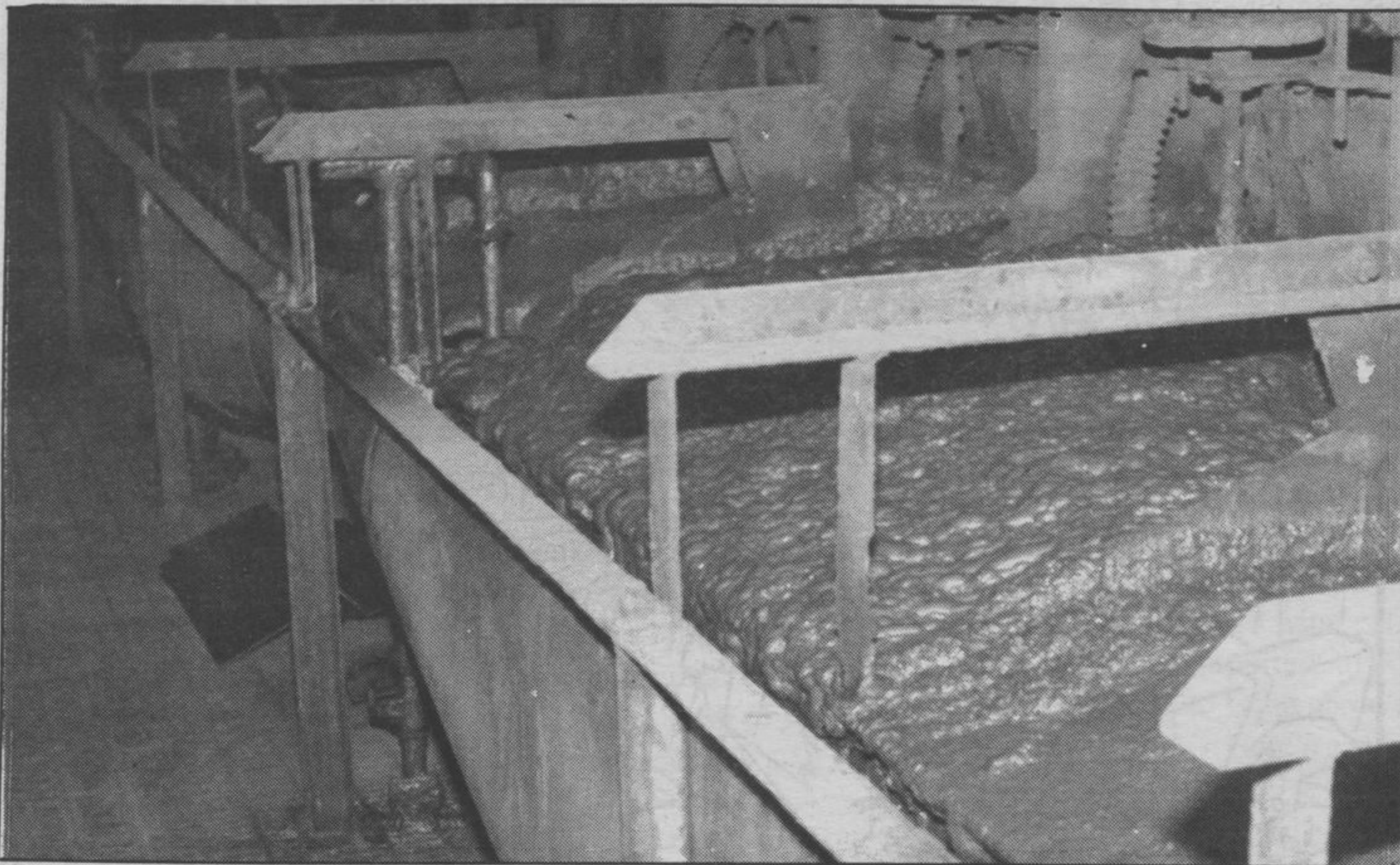


More efficient mining method may also be more environmentally friendly



Tailings are created during the milling process, (above), when the minerals are removed from the ore (in this case, the zinc and copper). By returning the tailings underground, less goes into the tailings pond, and gaps in the backfill may also be filled.

Minnova Mines at Winston Lake is currently testing the feasibility of using tailings material to backfill underground openings created by the mining out of zinc and copper.

Tailings are what's left of the mined ore after the minerals have been extracted, and generally have the consistency of sand.

Many mines use system

As minerals are mined out of the underground ore body, the resulting spaces are filled with backfill, which is gravel imported either from other underground areas, or from the surface.

Adding tailings to the backfill process makes it possible to

fill in gaps that may occur if gravel alone is employed.

Many mining operations use tailings as backfill. The tailings are readily available and can be transported easily through a system of small tunnels and pipelines for placement in designated areas.

Additional benefit

An additional benefit is the return to the mine of material that otherwise would have been stored on surface, in the tailings pond. By using them underground, the size of the area that must be rehabilitated after the mine closes is significantly lessened.

It also provides for more water storage than would otherwise be occupied by tailings

solids, thereby reducing water treatment costs while ensuring clean water.

Uses waste rock

Winston Lake presently uses coarse waste rock to fill openings created from mining. Even though this backfill is an effective and safe support medium, tailings could potentially fill all void remaining in the rock mass.

The fine tailings can migrate through the rock and create a material similar to weak cement.

The tailings must not only provide the required fillings, it must also allow water to drain through it. This means that only the coarser portion of the actual tailings can be used, so the

finer tailings are sent to the surface impoundment area. This is because the finer material drains poorly and weakens the strength of the backfill.

In operations where strength must be increased, small quantities of cement are added to the tailings. This can vary from two to ten per cent of the total material, measured by weight.

Winston Lake is hoping to add tailings fill to the existing rock mass to increase the support capability to the rock and seal off any voids remaining in the rock mass.

However, how effectively the use of tailings as backfill will work at Winston Lake will not be known until testing is completed.

An extensive monitoring of various fill parameters will be used to evaluate the benefit of this additional fill to the mining process.

Testing is expected to be completed by the end of December.

Share the wealth gears up for Christmas

By Darren MacDonald
The News

"Share the Wealth", a charitable organization that collects food, toys and money for the needy in the Terrace Bay/Schreiber area during Christmas, is gearing up for another holiday season.

Last year, the group collected \$2,100, which it used to purchase turkeys, vegetables, potatoes, bread, butter, Christmas cake, wrapping paper and batteries for 41 needy families.

It also collected canned goods, which were included in the food hampers.

Share the Wealth organizer Carol Cringle says the group wants to make sure "no kids in the area lose out" on the Christmas extras.

"A lot of people think there's no need in this area because it's so rich," Cringle says.

She says that there are 150

continued on page 8

Union and company agree

continued from page 1

take her back as an employee, but Talrico said they wanted her to work shift work.

"Mona had always worked steady days," he said.

"Basically the agreement is Mona will return to work with full seniority as of Monday, Nov. 11."

Mike Yakamovich, Administrator at Thunder Bay Homes for the Aged, also said he was pleased with the agreement

they had reached.

"Yes, we are quite happy," he said.

Yakamovich said that although he couldn't discuss the specifics of the agreement, the important thing is the problem was solved amicably.

"The point is that it was a negotiated process between the union and ourselves and a settlement was reached," Yakamovich said.



This Christmas, help protect an acre of rainforest for just \$25.

With help from Canadians, World Wildlife Fund has protected thousands of acres of tropical forest --- through the Guardian of the Rainforest campaign.

But forests are being destroyed at the rate of one acre every second! To protect an acre for your friends and family this Christmas, call 1-800-26-PANDA.

World Wildlife Fund
90 Eglinton Ave. E. Suite 504
WWF Toronto, ON M4P 2Z7



THE CORPORATION OF THE TOWNSHIP OF TERRACE BAY

WELFARE ASSISTANCE

Effective immediately the Welfare Administrator will be available for appointments on Tuesday and Thursday afternoons. To schedule an appointment, contact the municipal office at 825-3315.



Highview Animal Clinic

Dr. Benz & Dr. Peterson will be in Terrace Bay at the Community Church Wednesday, & Thursday November 20 & 21st, 1991.

For appointments call Cathi at 825-3330

**HOT NEWS TIP?
NOT SO HOT NEWS TIP?
CALL 825-3747, ASK FOR THE EDITOR
(AFTER HOURS - 825-3870)**



Seminar

for owner/operators of commercial motor vehicles

A seminar for owner/operators of commercial motor vehicles operating out of Jackfish, Schreiber, Terrace Bay, Rosspoint and Pays Plat will be held on the evenings

November 21 and 22

Topics will include documentation, dangerous goods, motor vehicle inspection, hours of work (log books)

The seminar, sponsored by the Aguasabon Chamber of Commerce in conjunction with Ontario Ministry of Transportation and the Terrace Bay Police Service.

Terrace Bay Recreation Multipurpose Room.
Nov. 21, 1991 7 - 9:00 p.m.
Nov. 22, 1991 7 - 8:30 p.m.

Registration Free!