

THE DIRT

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HOLDEN MINE WATER TREATMENT PLANT PROJECT



WORK RESUMES AT HOLDEN MINE AFTER EVACUATION DUE TO WOLVERINE FIRE

IMCO returned to work at the Holden Mine Water Treatment Plant project in mid-September after being evacuated and shutdown for six weeks because of close proximity to the Wolverine Fire. Since construction began again, crews have made a lot of progress: The steel building frame has been completed, tanks are welded, process equipment is in place, concrete is nearly finished, and interior piping is coming up soon. The IMCO crew continues to remain determined and committed to this project despite the challenges presented by the remote location. The temperatures are dropping, and crews will work until the winter weather shuts the project down for the season.

The Holden WTP site hosted a safety BBQ in September with delicious food and prizes. The crew was recognized for their hard work, positive

attitudes, and the dedication from themselves, their families, and loved ones while working away from home for weeks at a time.

It is our priority to provide a quality product for Rio Tinto while taking care of the crew. IMCO personnel is constantly striving to improve safety on-site and collaborating with Rio Tinto to establish a Zero Harm work atmosphere.

Forest near the jobsite after the Wolverine fire burned through (below).



CLIENT PROFILE

The client is global mining company Rio Tinto who IMCO is working for at the Holden Mine Water Treatment Plant Project near Chelan. Rio Tinto never operated the Holden Mine but inherited the responsibility to clean up the Holden site when they bought Alcan (The Aluminum Company of Canada) in 2007. IMCO's project builds a new treatment plant that will treat contaminated groundwater carried to the plant by a conveyance pipeline built in a prior phase of construction. Hindered by a raging wildfire this summer, the project was stalled for six weeks. IMCO's Holden Mine team is now back in full-swing, working to complete as much work as possible before the winter weather shuts the site down for the season.

Rio Tinto is a British-Australian metals and mining company with global operations. The company's primary business is the production of raw materials, but they also perform processing of these materials at plants around the world. They are headquartered in London and operate a management office out of Melbourne, Australia with major

hubs in the U.S. and Canada. The United States regional office is located in Salt Lake City, where the IMCO project team traveled several times before securing the Holden Mine WTP contract. The company is over 150 years old, founded in 1873 when an international group of investors purchased a mine complex on the Rio Tinto River in Spain. Since then, Rio Tinto has grown through a long series of mergers and acquisitions to place itself among the world leaders in the production of commodities, including aluminum, iron ore, copper, uranium, coal, and diamonds.

Rio Tinto operates on six continents, primarily in North America and Australia, and they have significant businesses in Asia, Europe, Africa and South America. The company employs 60,000 people across 40 countries. Rio Tinto owns its mining operations through a complex web of wholly and partly owned subsidiaries and has gross assets totaling over \$80 billion. Their businesses include open-pit and underground mines as well as mills, refineries, smelters and power stations. They have an impressive hydro-power portfolio and research and service facilities. Rio also operates and oversees the

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I-90 OPERATION

Construction heated up this summer on IMCO's largest construction contract, the I-90 Two-Way Transit and HOV Operations project (pictured above). Over the last several months, IMCO crews have been building the exit walkways inside the tunnels for emergency evacuation and prepping the Mercer Island tunnel lid for partial demolition to install the new scarrado nozzles. These



nozzle's are large metal structures that are being inserted into the lid of the Mercer Island tunnel to help direct air flow from the fans to the roadways. Much of the work done this summer was completed through the limited access points around the tunnels systems. Material was carried thousands of feet by hand into the tunnels by IMCO crews and subcontractors.

The project's last I-90 closure was the weekend of October 10th and 11th, after not having a closure since May. Westbound traffic was re-routed to the Express Lanes so that work could be done in the tunnel and on the lid. The lane closures are crucial to the schedule and productivity of the project. As the General Contractor on this project, IMCO is allowed 27 roadway closures. All must be fully coordinated with crews, subcontractors (particularly the traffic-control subcontractor), and WSDOT, so they may communicate with the public. The work being performed during closures includes upgrades to the fire life safety systems; fire suppression, linear heat detection, infrared detection, tunnel lighting, tunnel signing, power upgrades, emergency power upgrades, ventilation upgrades, fire hydrant modifications, and drainage.

Crews have been working day shifts as well as night



shifts since early August. Crews are building a new on-ramp for an Eastbound HOV lane that will exit onto Mercer Island. Our subcontractors play a key role in making this project successful. Planning and logistics has been the biggest challenge so far. Valley Electric (Electrical Systems), Diamond B (HVAC), Novito (Traffic Control), and COSCO (Fire Suppression) are the major subcontractors currently onsite.

The focus for the winter months will be getting the new SCADA (Supervisory Control and Data Acquisition) system running and getting all the new infrastructure in place needed for the new fire detection systems in the Mount Baker Ridge Tunnel and the Mercer Island Tunnel. The new SCADA system will have the ability to automatically detect and suppress a fire. Currently, the tunnels are manually controlled by an operator. Upon completion of this new SCADA system, these will be two of the only tunnels in the world with the ability to automatically detect and suppress a car or tanker truck fire.

IMCO PROJECT EARNS ENR BEST PROJECT AWARD:

IMCO was notified in September that the Oso SR-530 Slide - Roadway Clearing Project was selected as the Engineering News Record (ENR) Northwest Region Best Project of the Year in the Small Project category. This is a huge honor and distinct recognition. The project will now compete for the ENR National Best Project of the Year against other regional winners in the Small Project Category. The Northwest regional projects will be recognized at a luncheon in Seattle on December 4th. Thank you to our project team at Oso who helped make this difficult project so successful.

"The coordination and planning necessary to get this project off the ground has been substantial, but with the leadership in the field the work is being executed safely and we are on schedule and within budget. Working in a 100% operational facility that was built in the 1940's and updated in the late 1980's has had its challenges. The logistics of how to get materials to and from the workspace is complex, and the safety risks of working above, below, and around live traffic is trying. Our employees have done an excellent job at embracing this work environment. It's satisfying to see everyone come together."

- Derrick Sas, IMCO Project Manager

IMCO GIVING

As part of IMCO's corporate vision, we strive to positively impact our communities by supporting community programs focused on health care, children, and education. IMCO is actively supportive of many Whatcom County charities and also looks for ways to strengthen the other communities where we work through service projects and charitable donations.

IMCO is committed to community and families. Our giving budget falls into two categories: 1. Industry involvement, where we strive to be leaders in our industry and support organizations that are making a positive impact and educating professionals in our industry. 2. Community involvement, where we specifically support programs that improve the lives of our youth, improve and strengthen the healthcare in our communities, and offer and improve quality education.

IMCO giving and sponsorship dollars may be requested in writing by organizations or employees on behalf of a cause that is in line with IMCO's vision. Consideration will be made based on employee involvement in an organization, the organization's mission and impact in the community, and the IMCO giving budget, which is set before the start of each year.

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infrastructure that carries their goods to their clients. This includes major railways, ports and ships.

As a global mining company with worldwide operations, Rio Tinto has one of the most recognized safety programs in the world. Since being awarded the Holden Mine Water Treatment Plant, IMCO has been exposed to the intense requirements of the Rio Tinto Safety Program. No one can work on a Rio Tinto site without undergoing rigorous safety protocol. Rio Tinto is committed to safety, people, and operational excellence. Their values of respect, integrity, teamwork and accountability are evident at IMCO's Holden Mine job site. They see challenges as opportunities and seek to advance their reputation, create value for the business and work collaboratively with partners and communities.

IMCO Partners With Housing Hope

Donates to the Monroe Family Village Complex

On October 1st and 2nd, IMCO donated labor and expertise in the form of an eight-person crew, led by Project Manager Paul Prozinski and Senior Superintendent Kelly Brown, to Housing Hope's Monroe Family Village complex in Monroe, Washington. Together with Housing Hope personnel, IMCO's crews surveyed the land, helped with layout and assembly, and installed equipment for a brand new playground unit. The work included a concrete pour.

Housing Hope is a non-profit organization based in Snohomish County that focuses on providing a full range of affordable housing options for lower income families. This includes emergency shelter, transitional housing, affordable re-rent units and homeownership opportunities. IMCO has worked with Housing Hope in the past. It is an honor to work with their passionate staff toward such a great goal. Thank you to all those who turned out to make this successful.