

Project Information

Client: Phu Bia Mining Ltd.

Location: Laos

Application: Containerized Membrane Microfiltration System

Description: The project entailed the design, fabrication, and commissioning of a containerized microfiltration system to purify surface water in order to provide potable water to a mining camp of 1000 workers. The system included membrane microfiltration, and chemical disinfection. Nominal output is 80,000 gallons per day.

The project site comprises a mine camp housing approximately 1000 workers in the highlands of central Laos. The remote location and wet weather conditions presenting unique challenges to the installation and commissioning of the system.



The system is totally contained in a 20 foot intermodal shipping container. All components of the treatment system are mounted inside the container. Hollow fiber microfiltration was chosen for this application due to the high turbidity (300 NTU) of the feed water.

The system shipped from RODI's New Mexico facility completely assembled and ready to install at the mine camp. Inlet, outlet, and power connections were all that were necessary to install the system.





The system is equipped with a state-of-the-art monitoring and control system. All normal treatment steps, including service, backflush, and chemically enhanced backflush (CEB), are completely automated. Data is automatically logged by the control system to facilitate analysis of the system performance.

The system is equipped with a self-cleaning 300 micron screen at the inlet in order to protect the membrane elements from excessive fouling.



Chemical injection systems are provided for chemically enhanced backflush as well as normal on-going chemical disinfection (chlorination) of the product water produced by the system.



One of the many visitors to the project site!



Effectiveness of the high performance membrane treatment system allows the mine to produce potable water of excellent quality even though the feed water can be highly turbid due to the frequent local rains.

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