

NOVA Chemicals Joffre Site

About the Supporting Infrastructure

The Joffre Site requires significant infrastructure to support operations, product movement and personnel. In fact, this infrastructure is one of the reasons it made sense (economically and environmentally) to continue expanding here rather than build redundant facilities elsewhere. Supporting facilities include water/effluent treatment, pipelines, power, communications, fire protection and rail loading/transportation.

Responsible operations – The Joffre Site works to reduce impacts to the Red Deer River. We use about 1% of the 'normal' river flow each year for Site operations. The majority is lost through evaporation in onsite cooling towers. A phosphorous removal plant reduces the impact of the site's small discharge to less than 1.0 milligrams per liter.



Water treatment facilities produce softened water for use in manufacturing and drinking water to municipal standards.



Manufacturing facilities use closed loop cooling water systems to remove heat from chemical processes. Cooling towers cool the water for re-use by drawing in air with large fans and direct contact with circulating water and air – like a humidifier. The warm humidified air rises, and in the winter is seen as large white vapor clouds.



An ethylene pipeline linking us to customers and underground storage travels a distance of 156 miles (260 km).