

# Jubilee Processing Plant at Hernic Ferrochrome

## 85tph tailing treatment plant.

In **2016** Consulmet Metals executed a Lump Sum Turnkey project for Jubilee Metals Group.

Jubilee Platinum signed a contract with Hernic Ferrochrome for a chromite and PGM beneficiation plant treating historic tailings and current arising's material derived from the existing operation. Jubilee approached Consulmet Metals to deliver a LSTK solution for the execution phase of the Hernic Tailings Treatment Project

Consulmet Metals developed a process flow sheet and associated detailed engineering for recovering chromite and PGMs from the Hernic Ferrochrome site existing tailings and current arising's material. The existing tailings material is hydraulically mined and pumped to the new beneficiation plant.

The current arising's and hydraulically mined feed streams report to the new chromite and PGMs recovering plants main feed tank. The plant contains a classification circuit in order to prepare the following streams:

- De-Slimed material reporting to the float feed thickener
- Middling's fraction reporting to the fine chromite spirals circuit

The fine chromite spiral module consists of four stages. A metallurgical grade chromite is produced as final spiral plant product.

The spiral plant tailings material is the feed to the flotation plant for PGM recovery, here various stages of flotation is applied for maximum recovery.

The final PGM concentrate is stored and dispatched periodically from the site storage facility. Consulmet Metals provided a turnkey solution pertaining to all utilities and reagents associated with PGM flotation plants.

The tailings derived from the beneficiation plant reports to the existing tailings storage facility (TSF) ring main.

We estimated a total of **50 weeks** for execution of this project at a lump sum price. In conjunction with Jubilee, we selected the long lead item equipment for this project. All additional orders were placed and the project was completed within the allowed time frame and budget.







