

Sector: Agriculture
Project: Bajool Pump Discharge
Client: Cheetham Salt
Location: Barjool. Qld.



Cheetham Salt Limited

In 2012, Dalkeith Plastics Pty Ltd constructed the Bajool Pump Discharge line in Bajool, Queensland.

The project commenced by fabricating 630 DN segmented 90 degree elbows in the workshop in Adelaide. This was carried out using a series of angled templates which were then butt welded together in our 800 mm butt welding machine. While this technique is a time consuming process that is made difficult by accurately setting up and aligning each segment whilst maintaining the correct angle to achieve the overall 90 degree bend. Although difficult, it is always a far more efficient option than to order these fittings as the purchasing time can take several weeks.

Dalkeith Plastics Pty Ltd also sub-contracted A.P.R. (*Advanced Plastic Recycling*) to construct bearers to support the pipe on the jetty structure. These bearers are a recycled poly and wood product, which have superior properties that include being light weight, high density structure and require no on-going maintenance. Dalkeith utilises this product in a decking form as a replacement for ribbed wood decking for its Marine products. (Refer to the Leisure section for more information)



The pre-fabricated fittings, bearers, associated equipment along with two Dixon 630 machines were then transported to Queensland. The Dalkeith site operations crew then commenced phase 2 of the project, on-site installation.

Based at Rockhampton and travelling each day to site allowed maximum site time to complete the works within the required time frame which was imperative. Salt production requires the ability to constantly flood the salt producing fields based on evaporation rates. Being extremely hot all year round, a reliable water source is critical.

Limited available space to carry out welding long lengths of pipe provided a challenge, coupled with other contractors up-grading the jetty made work areas valuable real estate.

Installation of the 630 DN pipe on the bearers connected to the jetty was made easy by utilising the antique rail trolley that was initially used to load the salt onto the barges before road transport. The team utilised the trolley to ferry the pipe out to position, rolling the pipe onto the bearers, securing it and bolting to the pump outlet via a reducer. Due to the extreme heat, a 5 metre steel expansion joint was installed at the start of the jetty that would allow the HDPE pipe to expand and contract without disrupting the pump assembly.

Completion of works was delayed by one day due to heavy rain rendering access the site impossible.