ZINCOR CUT– OFF DRAIN

CASE STUDY

PROJECT: Zincor, Springs
CLIENT: Zinc Corporation
CONSULTANT: Thuthuka Project Managers
CONTRACTOR: B Civil & Earthworks
DATE: August 2000
QUANTITY: 1500m
PRODUCT: Kaymat, Flownet, FLO-DRAIN & GEOPipe

The drain comprised of a 2m high DN3 Flownet drainage core between a layer of Kaymat U14 and a layer of LDPE 500 micron Hyperplastic geomembrane, with 100 dia GEOPipe at the bottom.

Due to the hazardous nature of Zinc present in the water seeping through the soil out of the tailings dam, a FLO-DRAIN was manufactured specifically with a Hyperplastic geomembrane to serve as a complete cut-off drain to prevent the contamination of ground water in the surrounding area.

The trench was excavated through the ferricrete layer into the bedrock below to ensure interception of all seepage from the residue dump.

The FLO-DRAIN was affixed to the upstream face and the excavated material was backfilled and compacted in 200mm layers to ensure intimate contact of the FLO-DRAIN with the upstream face.