

# CASE STUDY

Geocomposite Drains

Project: Manurewa Trunkmain  
Date: May 2002  
Client: Watercare Services  
Location: Auckland



## Megaflo®

For the Manurewa Trunk Watermain upgrade, a sub soil drain was required to be installed alongside the pipe to reduce hydrostatic pressure in the trench.

The watermain was installed in a trench 2.3m deep requiring the sub soil drain to have sufficient strength and robustness to withstand placement and backfilling.

**Megaflo® 300** was chosen for this project because of its high crush strength core, geotextile filter and high flow rates. The rigid core ensured the drain could be easily placed alongside the pipe and would not buckle or crush when the trench was backfilled.

The **Megaflo® 300** is supplied pre wrapped in a Bidim non woven geotextile protecting the core from blockage and retaining the sand used to bed and backfill the pipe.

The overall project took 7 months to complete and extended across the Southern Motorway and Great South Road. Only short sections of trench could be excavated at any one time but despite these constraints the project was managed with very little disruption to traffic.

**Megaflo® 300** had already been successfully installed on a previous section of the Manurewa Watermain.



2.3m deep trench with mains pipe



Megaflo® & SAP7 Scoria placement



Construction along Alfriston Rd

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