

# The Complete Construction Service



## Donegan Civil Engineering



Title:	<b><u>Arnold Close DG5</u></b>
Location:	Dukinfield
Client:	United Utilities
Project Manager:	Kevin Clarke-O'Neil
Main Contractor:	Donegan
Commenced:	October 2009
Completed:	May 2010
Value:	£850k

### **Background Of The Works:**

The purpose of the project was to remove 4 properties from the flood register and a further 14 that were at risk when the local sewer network surcharged during storm conditions.

This resulted in flooding from manholes in Tennyson Avenue and Arnold Close causing overland flooding of roadways and properties.

Flows also emanated from private gullies and inspection chambers at properties on Arnold Close also causing flooding the properties.

**Civil Engineering & Tunnelling Contractors**

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**Donegan**  
Civil Engineering

## **Scope Of The Works:**

Construction of a 10.30m  $\emptyset$  segmental shaft with approx 150m<sup>3</sup> (150,000 litres) storage capacity for storm surface water. This was positioned next to the site compound within the grounds of Dukinfield Golf Course.

Construction of a 900mm  $\emptyset$  tank sewer with 60m<sup>3</sup> (60,000 litres) storage capacity for foul water constructed online.

Construction of approx 215m of 225mm  $\emptyset$ , 350m of 375mm  $\emptyset$  and 60m of 450mm  $\emptyset$  opencut pipework along with 27 manhole chambers 1.50 - 3.00m  $\emptyset$  all online down the small residential roads.

30m of 450mm  $\emptyset$  guided augerbore underneath the entrance to the golf course to reduce disruption to the local traffic.

There were also a number of Hydrobrakes, Flap Valves and Penstocks within the chambers.



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