

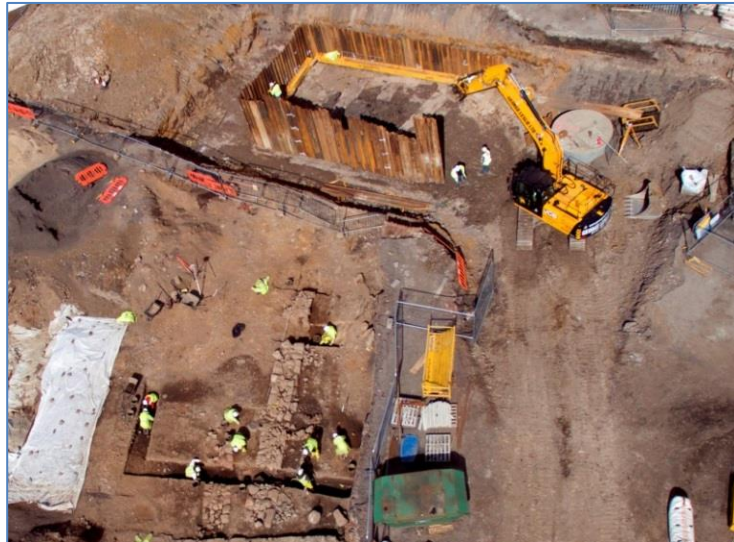


CASTLEBANK STREET – COMBINED SEWER OVERFLOW

This project formed a part of the wider Dalmuir1 environmental improvement programme of work in the north side of Glasgow to enhance the sewer network capacity and reduce the frequency of unplanned overflow spills into the River Clyde.

The main elements of work included:

- A 10m x 5m precast concrete overflow chamber
- 50m x 1500mm diameter x 9m deep overflow pipeline
- 4 x 4m diameter x 8m deep chambers
- 10m x 750mm diameter pipeline tunnelled in rock



The entire site overlay old mine workings which required to be grouted and in addition 7m long, sleeved rock anchors were installed to secure the adjacent fragile River Kelvin quay walls.

The location was on the historic site of Partick Castle and initial reduce-level excavations uncovered 800-year-old foundations of the old Bishop's Palace which in medieval times had been the holiday retreat of the leaders of the powerful Glasgow clergy of the day. *Archaeologists considered them to be the most significant find in Glasgow for over a century.*

CLIENT:	Scottish Water
ENGINEER / DESIGNER:	ATKINS
CONDITIONS OF CONTRACT:	NEC Option C
DURATION OF WORKS:	Jan 2016 – Jan 2017
CONTRACT VALUE:	£2.2m

