

Port Glasgow water harvesting system

Who:
Inverclyde Council

Where:
Port Glasgow shared campus

What:
Stormwater attenuation
and harvesting system

Lead consultants:



Civil engineers:



Contractors:



Background to specification



Tubosider UK's rainwater storage and harvesting system for Inverclyde Council's new £44 million Shared Campus in Port Glasgow sees a new development in the use of its stormwater tanks, one specially designed for Scottish requirements.

The Slaemuir complex constructed by GRAHAM Construction will become the new home for Port Glasgow High School and St Stephen's High School as well as a new

Additional Support Needs (ASN) School to replace Glenburn and Lilybank schools.

The project is designed by a multi-disciplinary team led by Ingenium Archial Ltd as architects and lead consultant, working among others with Buro Happold as mechanical & electrical engineers and Watermans as civil & structural engineers.



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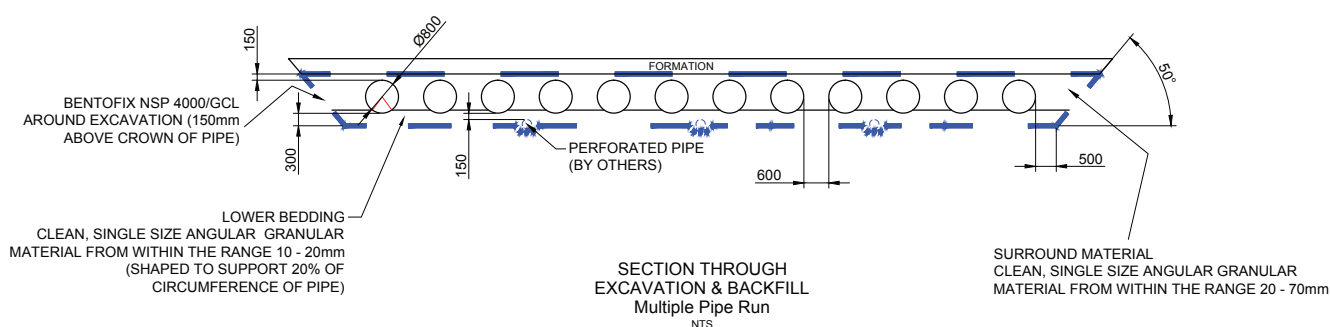
Key criteria

For water cleansing north of the border, Tubosider redesigned its own system of helibore steel tanks to meet the particularly high demands of the Scottish Environmental Protection Agency (SEPA).

Not only did the specification meet SEPA's requirement for primary treatment by forcing feed water into a granular layer at a lower level. The technical designs ultimately developed with and approved by GRAHAM and Watermans also saved considerable cost by avoiding 33 manholes which the originally intended crate system would have involved.

Under the Tubosider system, water passes into the pipes of a total of five tanks and out through the joints into a 300mm backfill. It then passes through small diameter pipes and out into manholes, having been polished and cleaned by the stone bed before exiting.

Tubosider Twinstore Tank For Port Glasgow - Tank 3: Attenuation Capacity 483m³



Solution & benefits

Tubosider's system, with a deeper bed than usual for its stormwater management systems, reproduces the natural method of cleaning water. The six-figure contract is a major win for Tubosider in Scotland and could pave the way for many more.

As GRAHAM's project manager at Port Glasgow John Mitchell said, using a steel tank system in this way was a first: *"The big challenge we faced was integrating the filter capacity within the design, but this was quickly expedited with Tubosider."*

"Once the system had been design and prefabricated, handling and installation compared very well with other systems, based on robust components of minimal weight. Delivery, support and follow-up were equally good, on-time with quick responses to required timescales, informing us in advance of agreed supply dates plus the number of wagons expected."

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