

Northern Ireland Water
34 College St
Belfast
BT1 6DR

Tel: 028 90741166
Fax: 028 90354822
www.niwater.com



Ken Anderson
Estates Management Unit
Belfast City Council
Cecil Ward Building
4 – 10 Linenhall Street
Belfast
BT2 8BP



Your Ref
Our Ref KR434 - 111
Cust Ref
Date 12th May 2010

Dear Ken,

Proposed Replacement of Annadale and Sunnyside Sewage Pumping Stations

I understand that you require further information on the replacement sewage pumping station proposed at Sunnyside Street.

Please find below a number of questions and answers, which I hope will clarify the reasons for the proposal.

What is the existing problem?

- There is reported historical flooding in the local catchment.
- Two high level overflows are present in the local catchment resulting, at times, in unsatisfactory discharges to the River Lagan.
- Two sewage pumping stations (SPS), Annadale SPS and Sunnyside Street SPS, are nearing the end of their design lives. Both pumping station sites require improvements in the current Health and Safety requirements.

What does NI Water propose?

- Construction of a new sewage pumping station, storm water storage tank and a screened overflow within one site with safe vehicular access.
- New gravity sewer from existing Annadale SPS to new SPS
- Abandon existing Annadale SPS
- Abandon existing Sunnyside Street SPS
- Abandon the two existing high level overflows to the River Lagan.

What are the benefits of the proposal?

- Two existing old sewage pumping stations with above ground buildings will be replaced with one new modern underground station. This will provide maintenance efficiencies within NIW. The existing buildings will be demolished.

- Two high level overflows replaced with one screened overflow and a storage tank. This tank will store storm water within the network for treatment, substantially reducing discharges to the River Lagan. As it is impossible to design a tank to store all storm events, the overflow will have a screen installed ensuring that all solid material within the storm water is kept within the sewer network. The storage tank has been sized to comply with Northern Ireland Environment Agency legislation. Once the construction proposals have been implemented the water quality of the high amenity River Lagan will improve.
- The new pumping station and storage will reduce the risk of out of sewer flooding.
- The new pumping station will comply with all relevant H&S requirements.

Why this location?

- The proposed site location is determined/constricted by several factors. As the new SPS is effectively a replacement SPS, the new pumping station needs to be adjacent to the existing Sunnyside SPS. The further the new pumping station is moved away the deeper the station needs to be. This will result in increased construction costs and increased operational (pumping) costs. Achieving vehicular access and complying with sightlines and stopping distances dictated the exact location along Annadale Embankment.

What will be visible?

- The new pumping station and storage tank will be located below ground. Two kiosks are required above ground - one to house the electrical control systems, one to house the site wash water system.
- A telemetry aerial is required to enable remote monitoring of the station from the NI Water control centre.
- A vent is required to allow the water level within the station to rise and fall under atmospheric pressure.
- A kerb will demarcate the site from adjacent Council land. A fence is not planned. The main surfacing within the NI Water site will be of reinforced grass. A concrete hard standing above the pumping station structure is required, to enable NI Water to maintain equipment and wash the area down after.

If you require any further information, then please do not hesitate to contact me.

Yours Sincerely,



Keith Haslett
Senior Project Manager