Technical Standards

Innovation Bulletin

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TITLE: Precast Dry Weather Channel

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Brief Description:

Medan Vale Flood Alleviation scheme in Nottinghamshire, involved the laying of 483m of storm water sewer with a new outfall structure; 220m of combined sewer including 100m of on-line gravity tank sewer incorporating a pre-cast dry weather channel

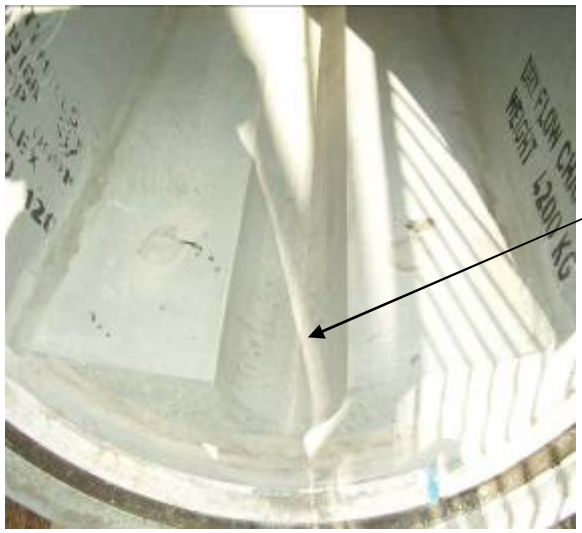
Benefits:

- Removed Confined space working
- Programme reduced by 2 weeks
- Reduced costs associated with in-situ construction by 50%
- Reduction in disruption to the local residents
- Reduced over-pumping costs by 15%
- Excellent finish

Details:

As part of the detailed design the construction team, along with CPM pipes, promoted the option of pre-casting the dry weather channel to remove the significant risks associated with confined space working. Polysulpide sealant was applied to each joint after installation ensuring that an operative never had to traverse more than 2.5m into a pipe. There were some minor issues to ensure the correct alignment of the channel but these were outweighed by the huge reduction in associated risks.

Photos:



Pre-cast channel and benching

Circulation List: see ticked boxes below [*link to the entire Circulation List* – **STW (Notes)** / **Supply Chain (QP)**]

Asset Creation:		Service Delivery:		Commercial Services:		Asset Strategy:	
• Water		• Water		• Water	☐	• Water	☐
- Distribution	☐	- Distribution	☐	• Waste Water	☒	• Waste Water	☒
- Water Production	☐	- Water Production	☐	**Purchasing**	☐	• R&D	☐
• Waste Water		• Waste Water		**SQS - H&S**	☐	**Customer Relations**	
- Sewerage	☒	- Sewerage	☒	**SQS - Q&E**	☐	• Energy & Carbon	☐
- Sewage Treatment	☒	- Sewage Treatment	☒	**Planning & Performance:**		**Supply Chain AMP4 &5**	
				• Water	☐	• All QP Administrators	☒
				• Waste Water	☒	• Specialist FW Cont	☐

(Cascade as appropriate)