Environment Forum

New River Loop

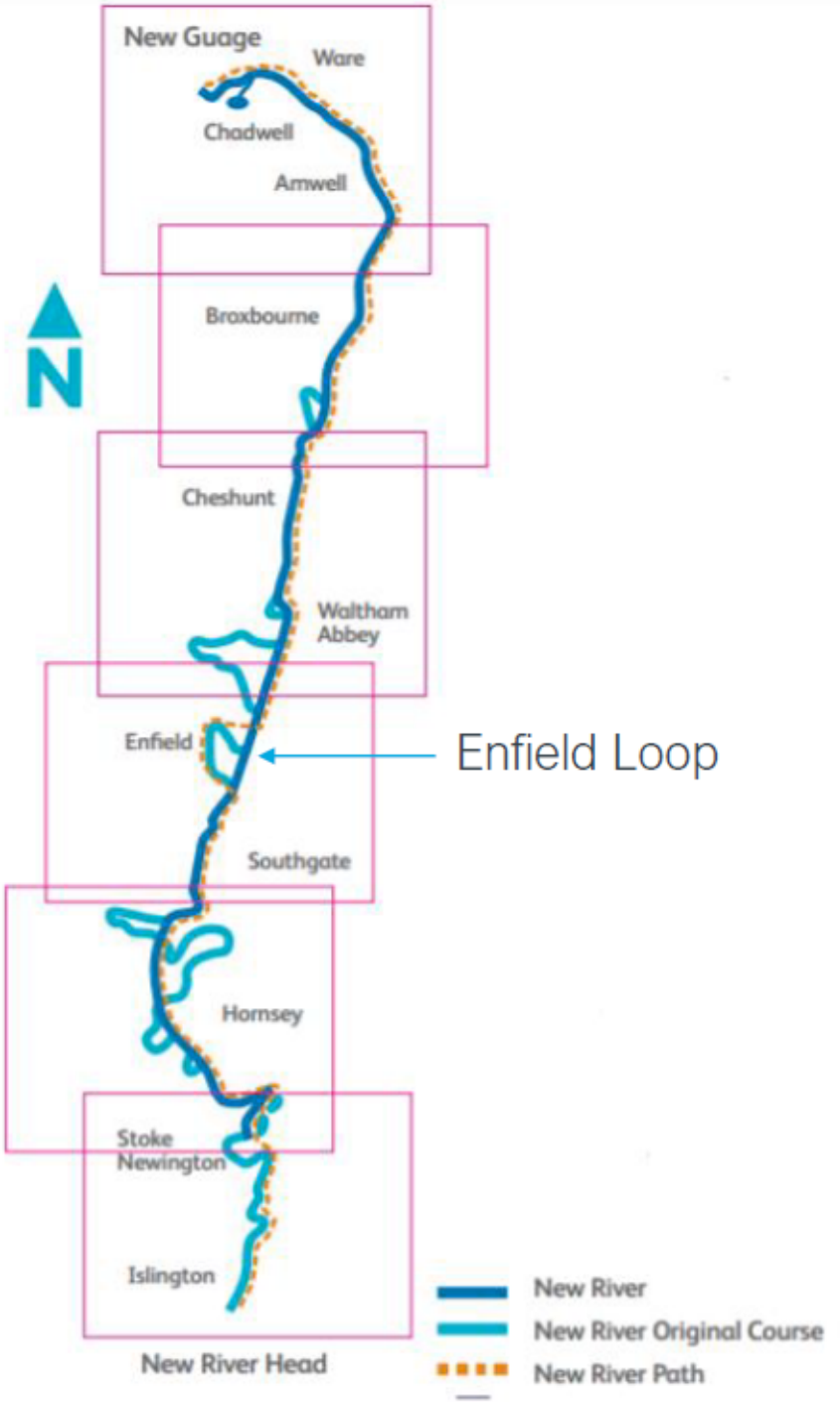
Wednesday 23rd November 2022

ENFIELD Council

ian.russell@enfield.gov.uk

The New River

- Completed in 1613, the New River remains a vital part of London's water network
- It sends around 220ML every day to three of Thames Water's large storage reservoirs The King George, Hornsey and Stoke Newington
- The water is then treated before being used to provide around 8% of London's water supply
- Over the years the New River has been enhanced by adding piped sections and aqueducts to reduce the length and improve performance



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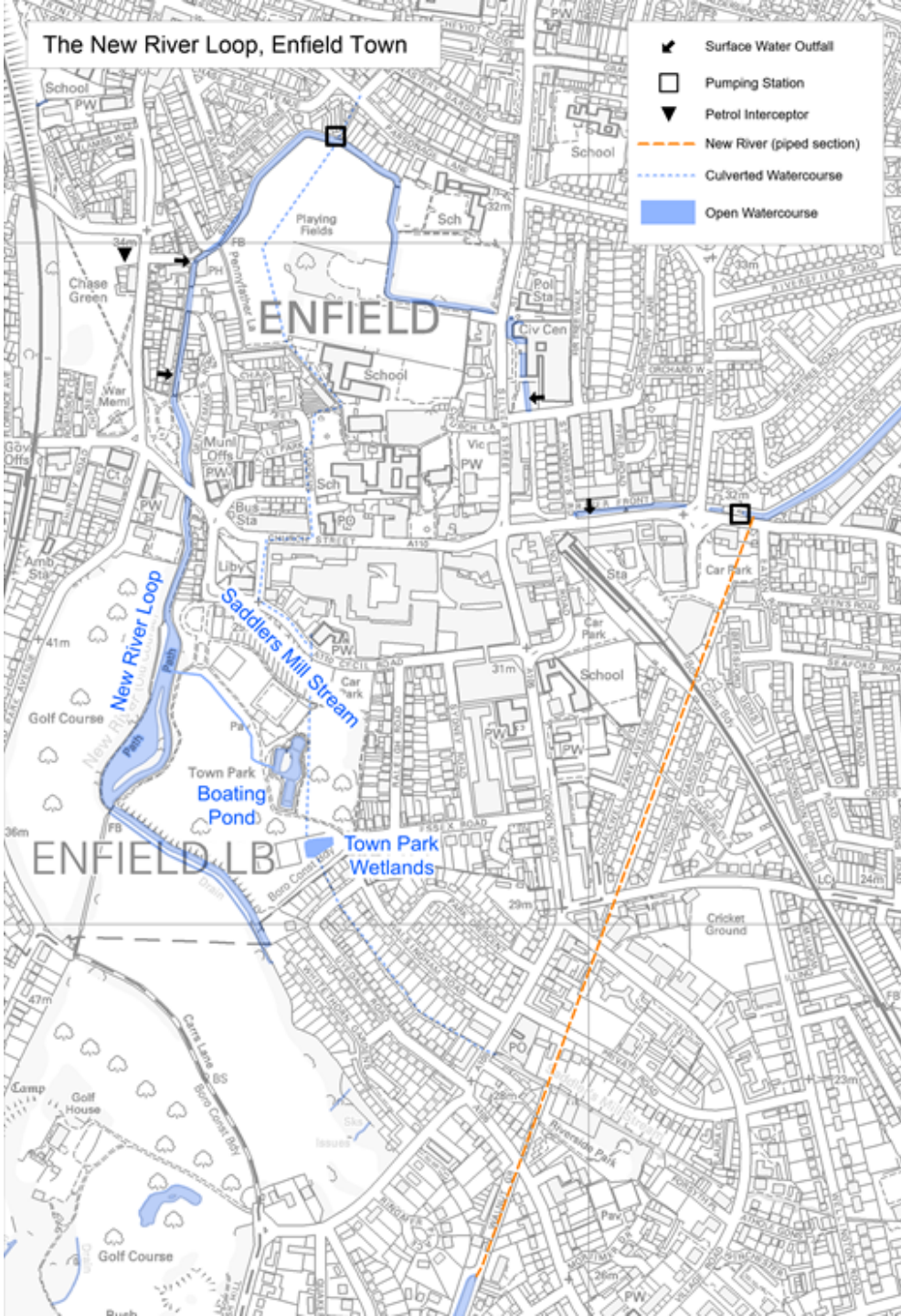
The New River Loop

- No longer a functional part of the New River, the Loop is retained primarily as an amenity feature
- Major improvements works carried out in early 2000s
- Main source if water is provided by Thames Water from the New River
- Backup pump installed at Southbury Road compound in 2010
- Parsonage Lane pump added in 2018



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The New River Loop **Problems**

- **Lack of water** – during dry summer periods any disruption to the water supply leads to low water levels
- **Pollution** – mainly nutrients such as nitrates and phosphates (caused by excess organic material), silt and oil from nearby roads
- **Algal blooms** – shallow, warm water and high nutrient loading create the ideal conditions for algae and duckweed
- **Dead fish** – severe consequence of poor water quality, fluctuating oxygen levels, incidents occurred in August 2020 and August 2021

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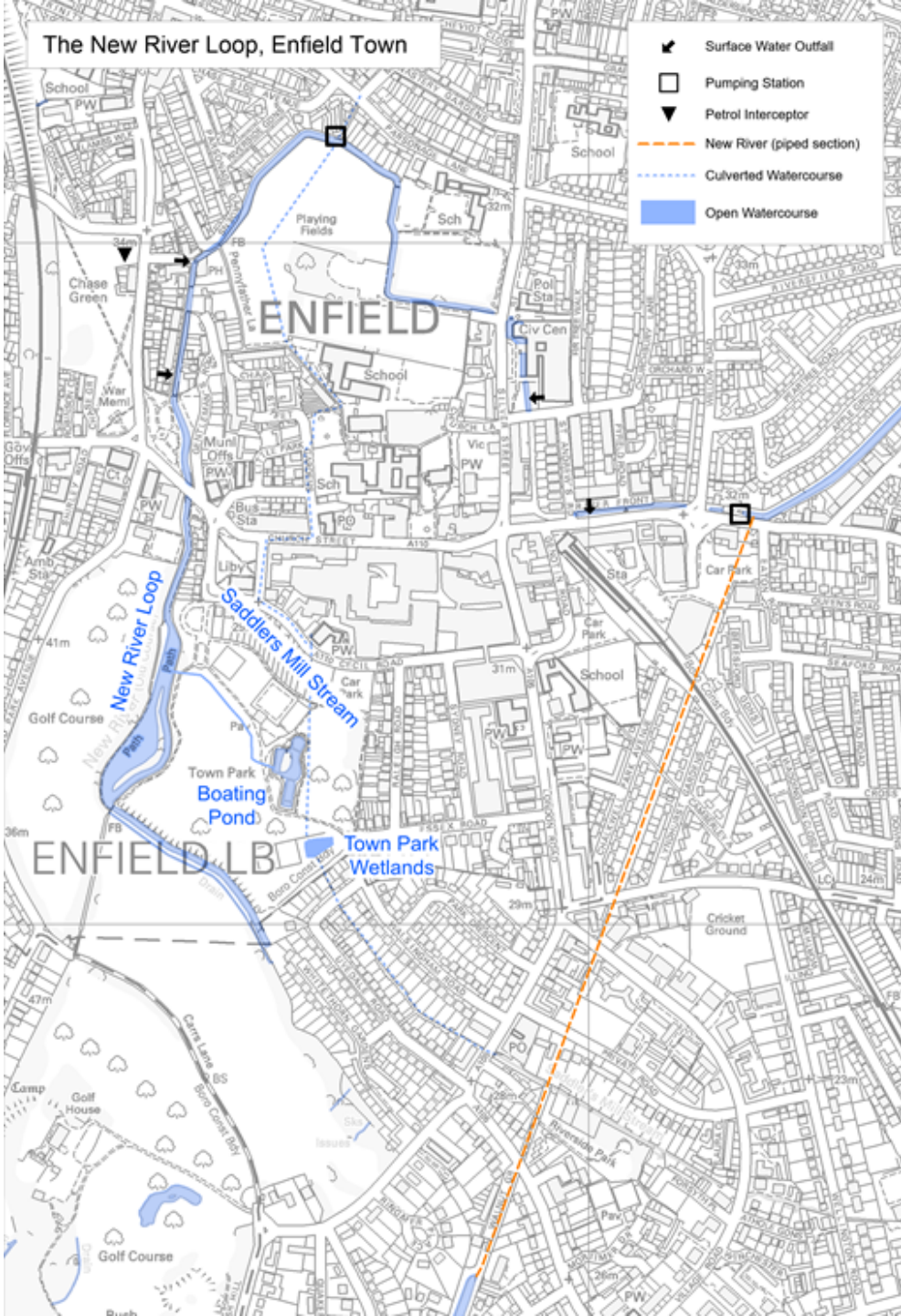
The New River Loop Actions – completed

- **Upgrade pumps**
- Clean petrol interceptor on Chase Green
- Chalk treatment – annual activity
- De-silting selected areas
- Improve footpaths and repair revetments

Thames Water replaced the pumps at Southbury Road in May 2022



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The New River Loop **Actions – completed**

- Upgrade pumps
- **Clean petrol interceptor on Chase Green**
- Chalk treatment – annual activity
- De-silting selected areas
- Improve footpaths and repair revetments

Petrol interceptor tank cleaned in January 2022

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The New River Loop **Actions – completed**

- Upgrade pumps
- Clean petrol interceptor on Chase Green
- **Chalk treatment – annual activity**
- De-silting selected areas
- Improve footpaths and repair revetments

Second year of chalk treatment applied in January 2022

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The New River Loop **Actions – completed**

- Upgrade pumps
- Clean petrol interceptor on Chase Green
- Chalk treatment – annual activity
- **De-silting selected areas**
- Improve footpaths and repair revetments

De-silting works north of Church Street carried out September to October 2022

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The New River Loop Actions – completed

- Upgrade pumps
- Clean petrol interceptor on Chase Green
- Chalk treatment – annual activity
- De-silting selected areas
- **Improve footpaths and repair revetments**

Footpath and revetment works to west bank, south of Church Street, completed in August 2022

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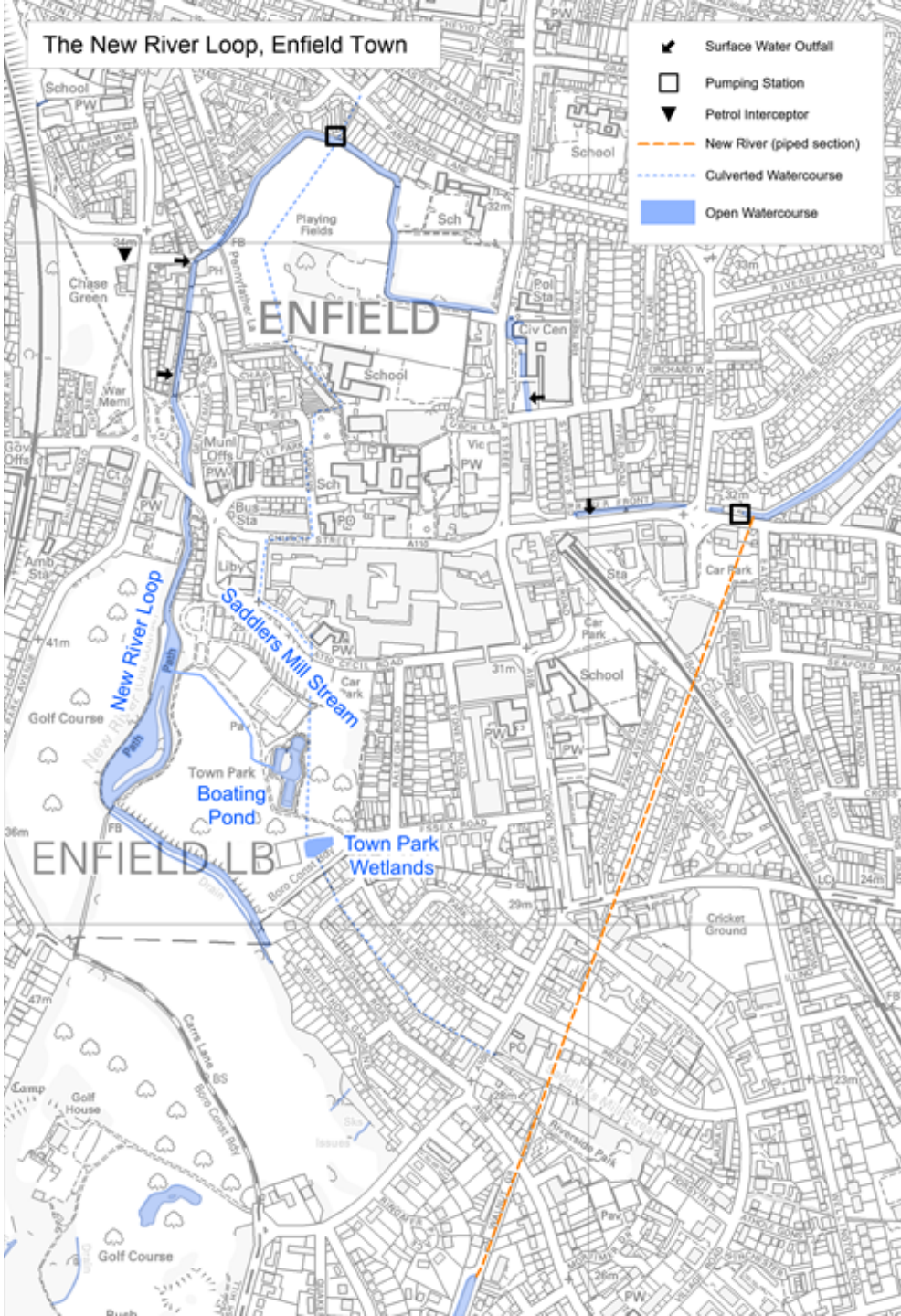
The New River Loop **Actions – ongoing**

- Upgrade Parsonage Lane pumps – due to be completed in November/December
- Install remote water level monitors – scheduled for December
- Interpretation features – designs are being developed with input from The Enfield Society
- Chase Green Wetlands – feasibility study is underway, public consultation carried out in October-November 2022



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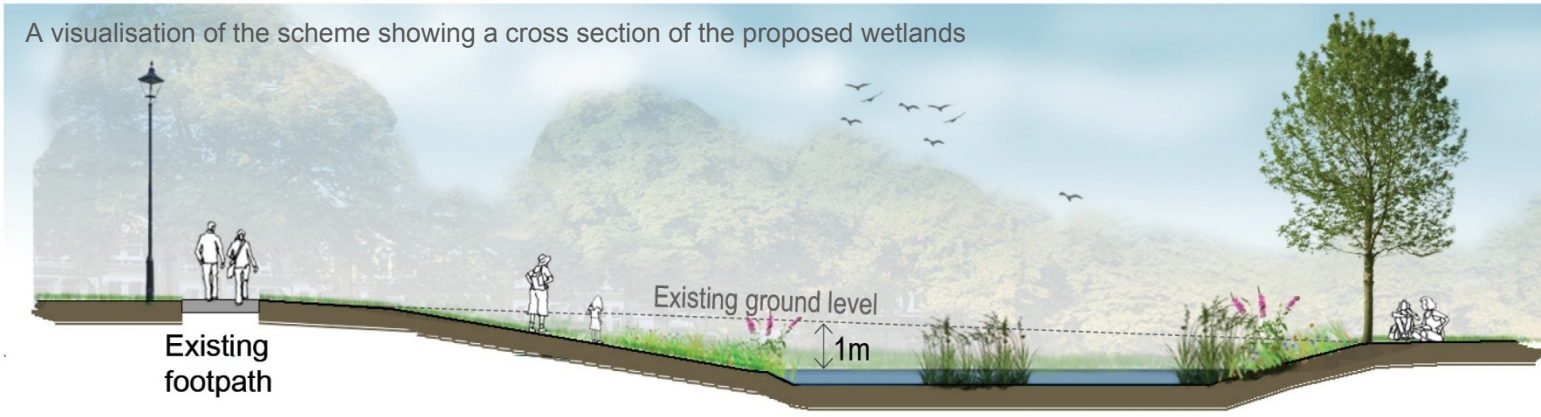
Chase Green Wetlands

Plan view of proposed wetlands

Chase Green Area: 28,750m²
Wetlands footprint: 650m² (2.3%)
Total scheme area: 1,450m² (5.0%)

Artists impression of Chase Green Wetlands facing from Chase Side

A visualisation of the scheme showing a cross section of the proposed wetlands



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