

Working together to protect and enhance our water environment

What our partnership in the River Crane catchment has achieved this year

Smarter Water Catchment Plan Update Document March 2025 Working in partnership





Welcome to this update

In March 2021, we collectively set out a 10-year plan to protect and enhance the River Crane catchment. Throughout 2024/25, we continue to deliver the actions outlined in this plan and have started to collect data to demonstrate the additional benefits of this programme.

We've been able to measure how working in partnership can leverage additional match funding, support and create new jobs, enhance and create habitat and biodiversity and increase engagement and public awareness across a river catchment. All of the insight gathered is being used to inform our long-term strategy for partnership working across the Thames region.

Working in partnership

We've been working with many different partners across the River Crane catchment, bringing together expertise from many specialisms to make sure our future plans are robust and right for the local environment and communities.

Our partners include water companies, regulators, non-government organisations, academia and local interest groups – all have given either finances or in-kind support to help make this project a success.

Contents

- 3 What we're aiming to achieve
- A project case study
- Delivering our shared long-term plan
- 10 Acknowledgements



What we're aiming to achieve

Throughout 2024/25, we've focused on delivering the actions set out under each of our key themes. The main focus has been on analysing data to shape our strategies and delivering interventions across the catchment.



River Crane strategy



Aim for 2025

Our aim is to collate the benefits and lessons learnt from all three Smarter Water Catchments trial projects and disseminate this information in 2025.

On the next page is a case study on some of our collaborative work within the River Crane catchment and the benefits it's delivered so far.

Putting the right governance in place

A steering group with representatives from across the different sectors has guided the development and delivery of this catchment plan. We also have technical experts working on each key theme, bringing in additional stakeholders who are responsible for ensuring the best plan is in place to

achieve our objectives. It's also critical that Catchment Partnerships have the resources to partner with us, so we're funding multiple positions to support with facilitation, community engagement and data collection & analysis.

What's our collective vision for the River Crane catchment?

As part of the Crane Valley Partnership's Strategy 2018-2028, we want the rivers in the catchment to be recognised and valued as the 'central thread' that links together natural environments in north-west London. We want people living and working in the catchment to be able to easily access rivers and surrounding green spaces – to see thriving wildlife and enjoy low pollution levels.

The health of its rivers reflects the health of an area. So, we want local residents, businesses and policy makers to understand how the catchment's natural capital enriches people's lives. We also want these groups to be actively involved in caring for the catchment, feeling a shared sense of responsibility to look after it and ensure that it thrives in the future.

Steering group members

CAMELLIA (Imperial College London)

Citizen Crane

Crane Valley
Community Interest
Company

Environment Agency

Harrow Council

Let's Go Outside and Learn CIC

Thames Water

term plan

A project case study

Engaging Citizen Scientists using MoRPh

Start date: April 2022 End date: March 2023

Project description

Cartographer have been working on two strands of work: citizen science engagement, and research for Harrow Council to develop their understanding of the Upper Yeading Brook West. Both strands use MoRPh field surveys to understand the Brook's physical form, functioning and problem areas in order to co-develop recommendations to improve the Brook's condition.

What is MoRPh?

A survey method that records properties of vegetation, sediment, physical habitat and human modifications in a section of river. It records how much of each property is present across the bank tops, bank faces and river bed. Side-by-side MoRPh surveys provide information to summarise how a river is functioning or changing along its length. Measurements of channel size indicate whether it's artificially deep and disconnected from its flood plain.

Objectives

- Increase understanding of the structure and form of the Brook, and why and how it changes (this is geomorphology)
- Enable people to collect data and build evidence to influence decision making
- Improve Harrow Council's understanding of the Upper Yeading Brook

Outcomes

- 3 training events held, training 30 citizen scientists
- 10 field-surveys recorded by citizen scientists
- 2,840m of Upper Yeading Brook surveyed in 20m sections which fed into the development of the Yeading Brook Unbound Project

- The MoRPh surveys showed that the Yeading Brook:
- is a well functioning urban river with diverse physical habitats and invertebrates
- however, it faces a number of problems including deep, narrow channels that are hydrologically disconnected from their bank faces and tops, and widespread patches of invasive plant species

Project costs

Thames Water contribution: £5,000
Public funding: £18,000
Total Costs: £23,000

Lessons learnt

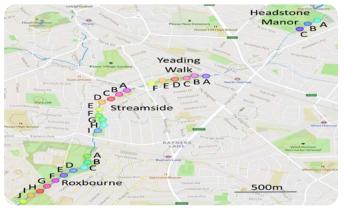
- Although urban sections of river can be heavily modified and highly vegetated, they can have highly diverse physical habitats and healthy functions
- Local citizen scientists are keen to learn more about their local river habitats and gather data to influence decisions

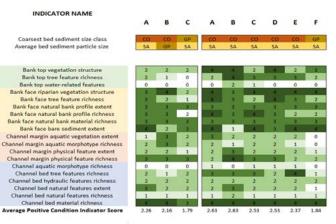
Future plans

- Help with the interpretation of river restoration recommendations for the Yeading Brook Unbound Project
- Establish a community-based legacy to support sustainable citizen science monitoring and stewardship of the Brook and contribute to wider research

Project highlights

- Empowering citizen scientists and giving them a voice to influence decisions that will affect river habitats
- Long list of recommendations for geomorphological improvements on the Yeading Brook
- Additional funding secured via the Crane Valley Grant Fund to carry out complementary studies on water quality and invertebrate communities with Brunel University





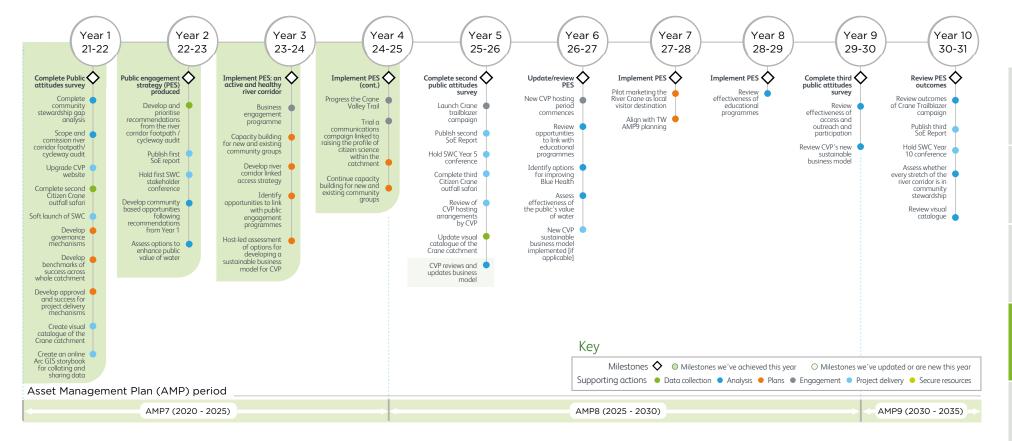




Delivering our shared long-term plan

Here are the milestones we achieved in 2024/25. Over the coming months we will be working on finalising any updates to future milestones, following a full review of progress achieved over the last four years.

Promote public awareness access and participation



AMP9 (2030 - 2035)

Enhance biodiversity and ecological connectivity action plan

Year 2

22-23

Publish first State of the Crane

report

environment

Agree priorities for habitat

restoration

stakeholder

consultation on

suite of priority

Complete |

Complete

species

stakeholder

target INNS

Prioritisation of fish passage issues

Formal 'Call for

projects' and nerformance criteria Monitor and align funding Launch and

opportunities Align with TW

AMP7 (2020 - 2025)

Asset Management Plan (AMP) period

consultation on

Year 3

23-24

Implement Phase

Review options for

impact on INNS

1 schemes

Review options

for enhancing

carbon capture

Define fish passage

and ecological goals

for the lower Crane

Year 1

21-22

Map current

habitat and key

species distribution

Complete gap

Complete fish

aovernance.

mechanisms

benchmarks of success across

whole catchment

Develop approval

and success for project delivery

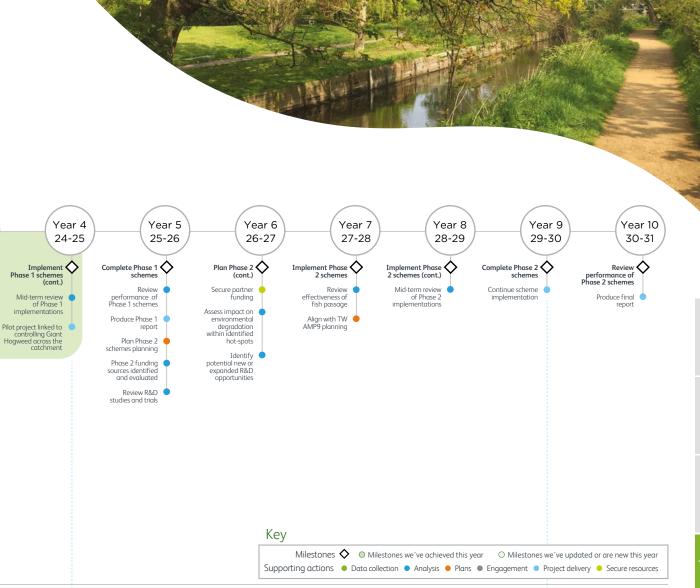
Identify potential R&D and quick win

opportunities

analysis

Develop (

Develop (



AMP8 (2025 - 2030)

Enhance flood resilience for at-risk areas action plan

Year 2

22-23

Complete \diamondsuit

SuDS

wetland and

opportunity

Formal 'Call for

projects' and assessment

against

Year 1

21-22

Identify at-risk

additional protection

Identify and

SOLITCES

Agree target level of

evaluate funding



Implement Phase
1 schemes

alleviation/ resilience schemes

risk benefits of other

Consider the flood

Identify flood |

AMP8 (2025 - 2030)

AMP9 (2030 - 2035)

Improve water quality in the catchment action plan

Year 1



21-22 22-23 23-24 Baseline evidence First State of Implement Phase gathered through the Crane 1 measures on SWC monitoring environment ground strategy report published Continue delivering the water quality Complete gap Begin wetland monitoring Citizen Crane Year monitoring plan analysis on drainage networks Link with public quality plan Work with TW programmes Surface Water Outfall Programme (SWOP) team to Develop and deliver Citizen Continue delivering Science programme the Citizen Crane investigate the core programme possibility R&D to investigate emerging organic contaminants of expanding Continue engaging with citizen scientists the AMP7 SWOP Develop (Engage with the governance mechanisms Crane Interest Group Carry out Yeading Brook East Develop (benchmarks of investigation success across Assess investigation whole catchment results and drainage information assessed Develop approval to identify specific issues/pollutants and success for project delivery Work with TW SWOP team to influence AMP8 investigations Asset Management Plan (AMP) period

Year 2

Year 3

AMP7 (2020 - 2025)

AMP8 (2025 - 2030)

AMP9 (2030 - 2035)

Improve geomorphology in the catchment action plan

Year 2

22-23

First State of

the Crane

Package of

appropriate

interventions determined

Complete initial

Restoration

AMP7 (2020 - 2025)

Strategy pilot scheme

assessment of Lower River Crane

environment

report published

Year 3

23-24

Implement Phase

ground

Prioritise key

Monitor the

outcomes of

Phase 1 measures

1 measures on

stretches of the

Year 1

21-22

Baseline created

Identify and

Develop (

Develop |

from review of existing Urban

River Survey data

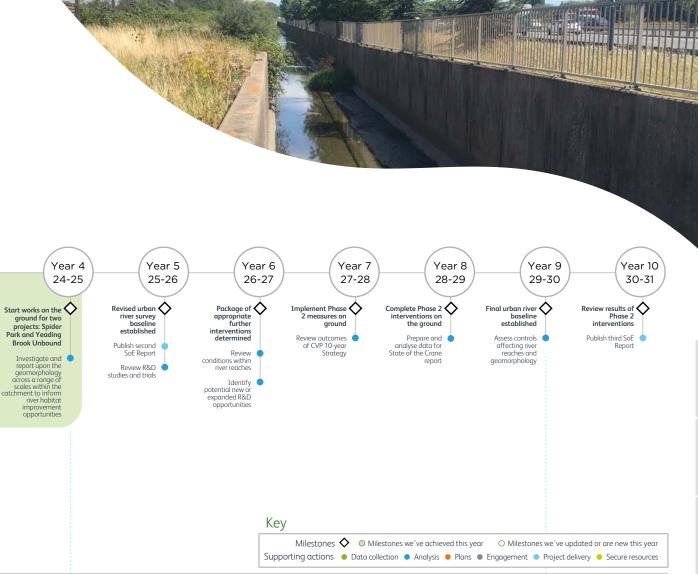
evaluate potential

funding sources

governance mechanisms

benchmarks of

success across whole catchment Develop approval project delivery Identify potential R&D and quick win opportunities



Asset Management Plan (AMP) period

AMP8 (2025 - 2030)

AMP9 (2030 - 2035)

9

Acknowledgements

We'd like to thank all the organisations and individuals in the partnership who've contributed their valuable technical inputs, insights and time. Through various forums and engagement platforms, we've been able to jointly develop this plan. We greatly appreciate everyone's commitment and enthusiasm, so we can collectively achieve this vision and deliver the plan.

The information provided in this plan is correct as of 31 March 2025 and has the formal support of all key stakeholders.

Partners

Atkins

CAMELLIA project:

- British Geological Survey
- Imperial College London
- University College London
- University of Oxford

Cartographer

Crane Valley Community Interest Company

Environment Agency

Friends of Headstone Manor Park (FoHMP)

Friends Of the River Crane Environment

(FORCE)

Frog Environmental

Groundwork London

Habitats and Heritage

Heathrow Airport Limited

Let's Go Outside and Learn CIC

London Borough of Ealing

London Borough of Harrow

London Borough of Hillingdon

London Borough of Hounslow

London Borough of Richmond upon Thames

London Wildlife Trust

Metis

River Restoration Centre

Sustrans

Thames Anglers' Conservancy

The Conservation Volunteers (TCV)

Wild Future

Zoological Society of London (ZSL)

Photography

Front cover photos taken by FORCE, John Waxman - Crane Valley Community Interest Company, Thames Water and Wild Future

Page 2 photos taken by Thames Water

Pages 3 and 10 photos taken by FORCE

Pages 5, 6, 7, 8, 9 and 10 photos taken by John Waxman, Crane Valley Community Interest Company

Page 10 photo taken by Wild Future



Your views

We'd really welcome your views on this smarter water catchment plan. Please share your thoughts and ideas on an email to our dedicated team at partnerships@thameswater.co.uk.

Working in partnership



