#### **Environment Services Training Group**

LOCAL AUTHORITY CONFERENCE

2024

# Dublin Urban Rivers LIFE (DURL) Project

ESTG Annual Conference 2024

Mullingar Park Hotel

15<sup>th</sup> October 2024

**DURL Project Co-Ordinator Lorraine Beirne** 





















# Dublin Urban Rivers LIFE (DURL) PROJECT

Background

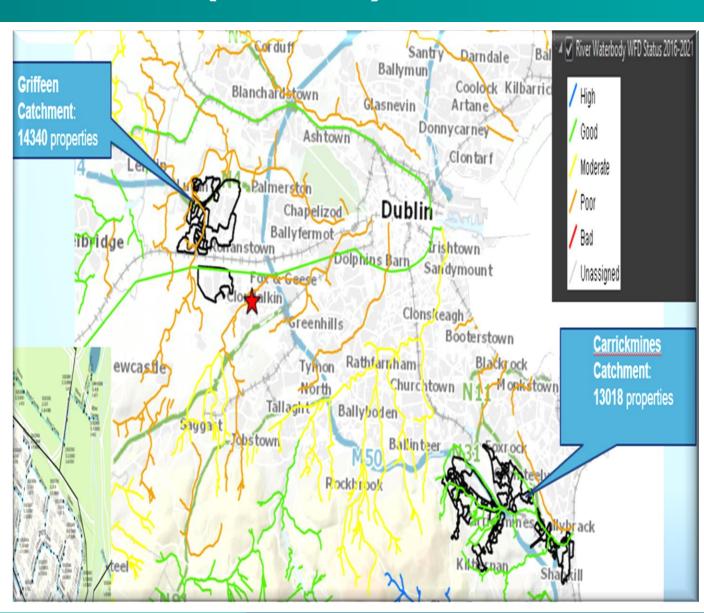
Public Engagement and Awareness

Computer Mapping System to Improve Detection Rates

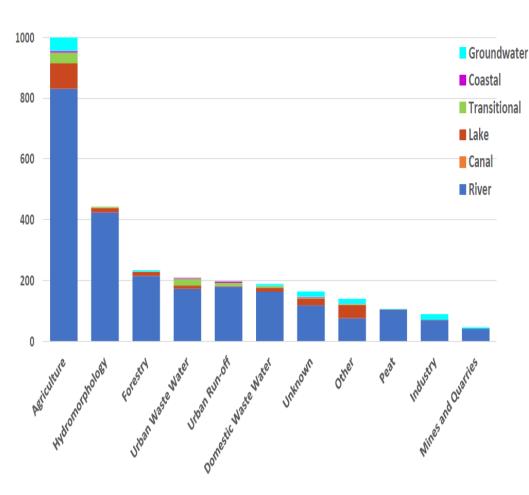
At Source Removal of 960 Misconnections

**Build 5 ICWs** 

Decision Support Tool & ICW Builder Tool



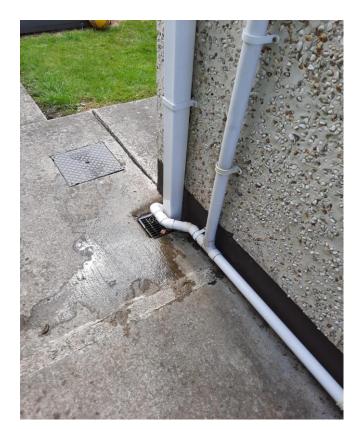
# Surface Water Quality Pressures





# **Misconnection Examples**







A MISCONNECTION IS WHERE A FOUL (WASTEWATER) PIPE IS MISTAKENLY CONNECTED TO THE STORMWATER (RAINWATER) DRAINAGE PIPE

### **DURL MISCONNECTION ANIMATED VIDEO**

#### **Education & Awareness Events 2024**

- ☐ World Waters Day Green Estate Demonstration
- ☐ Eco Week Workshops
- World Wetlands Day Social Media Campaign
- ☐ Climate Action Week Misconnection Demonstration
- Biodiversity Week Workshop
- Podcasts and Radio Interviews:
  - ☐ RTE Radio1: The Country Measure
  - ☐ Liffey Sound FM: Lucan Community Hour

- ESRI Ireland annual standout success award in 'Data Management and Collection Category' & shortlisted:
  - LAMA Awards, and
  - ☐ Sustainable Water Achievement Green Awards
- □ Park User Surveys (330 people)
- ☐ Tours of ICWs and Community Planting Days
- □ DURL Project Animated Video (x 7 languages)
  - ☐ 3 min video details misconnections & ICWs
  - ☐ 1 min social media version on misconnections















**DURL Project** 

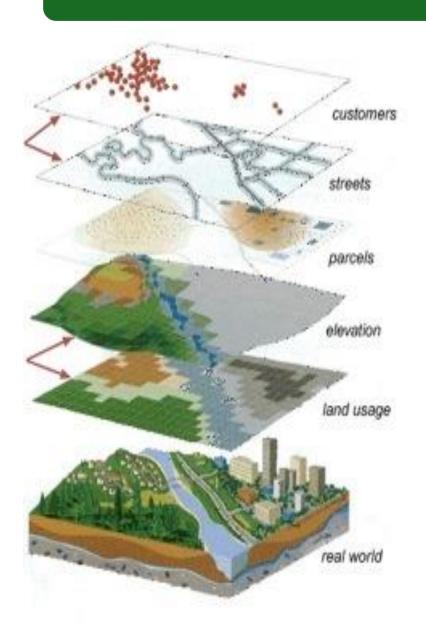
Water Quality in Urban Rivers Conference 28<sup>th</sup> May 2024

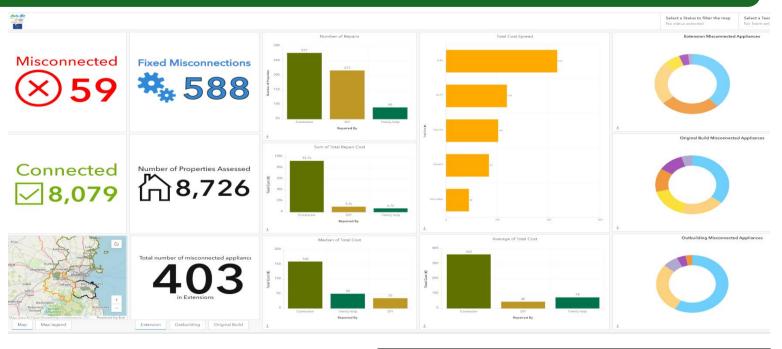
&

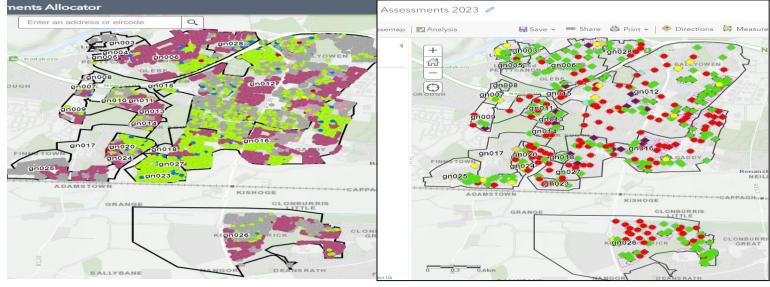
ICWs Site Visit 29th May 2024



### Computer Mapping System to improve detection rates

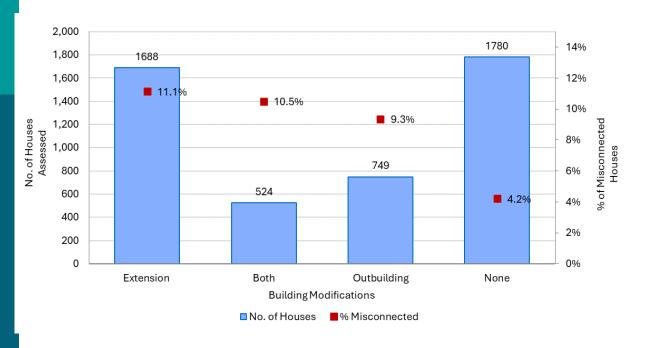




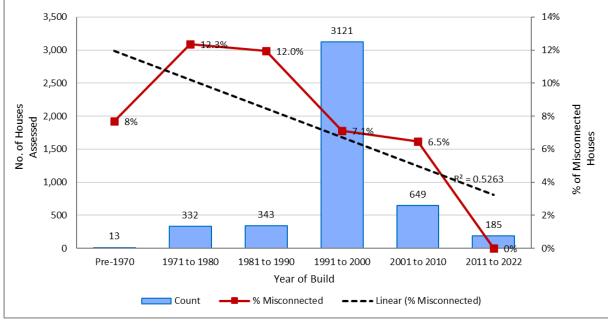


#### Computer Mapping System to improve detection rates

- High-Risk Approach:
  - 41% Of Houses On Average
  - Larger, Older, Detached Or Semi-detached







#### MISCONNECTION ASSESSMENTS

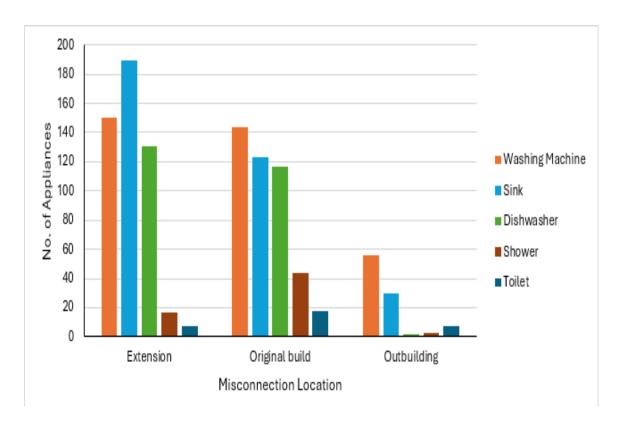
- ☐ Emphasis on Improvement of Local River & Repairs at Homeowner Cost Polluter Pays
- 99.5% Access To Houses The Public Want To Participate
- ☐ 17,000 Stormwater Drainage Checks Performed
- ☐ Completed >8,730 Misconnection Assessments From May 2021
- ☐ Weighted Average No. of Visits is 2.45, Resulting in 21,380 Contacts With Householder
- □ >650 Misconnected Houses Identified 90% Repaired With Remaining Under Repair





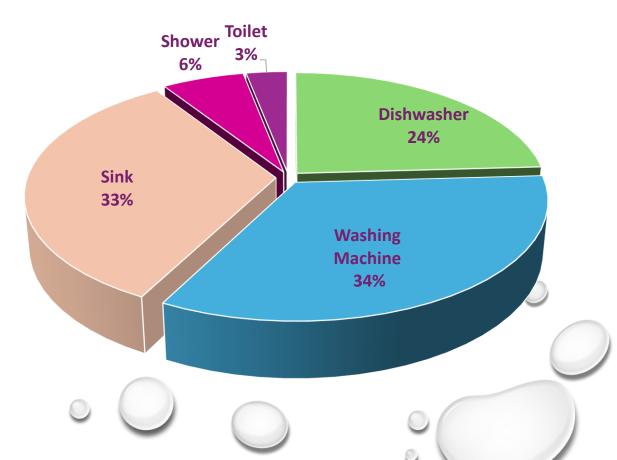
# **Misconnected Appliances**

- ➤ There is an average of 1.6 misconnections per property
- >1,050 Misconnected Appliances Found

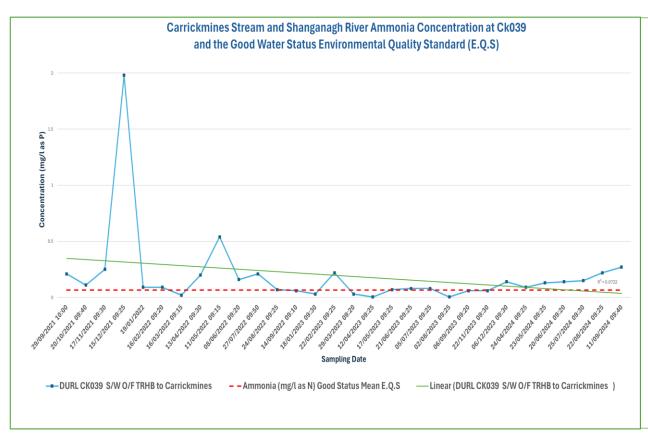


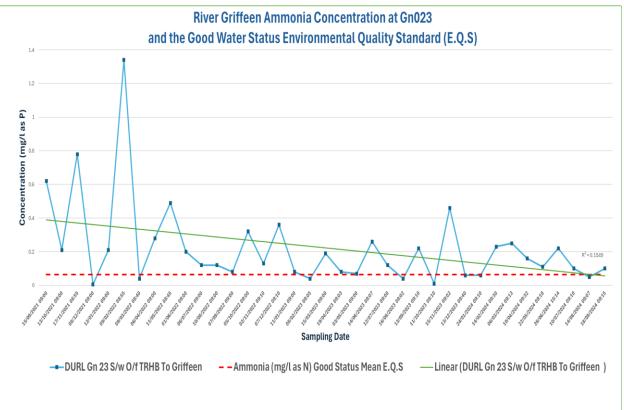
#### 92% of Misconnections Comprise of:

- Washing Machines
- Sinks
- Dishwashers

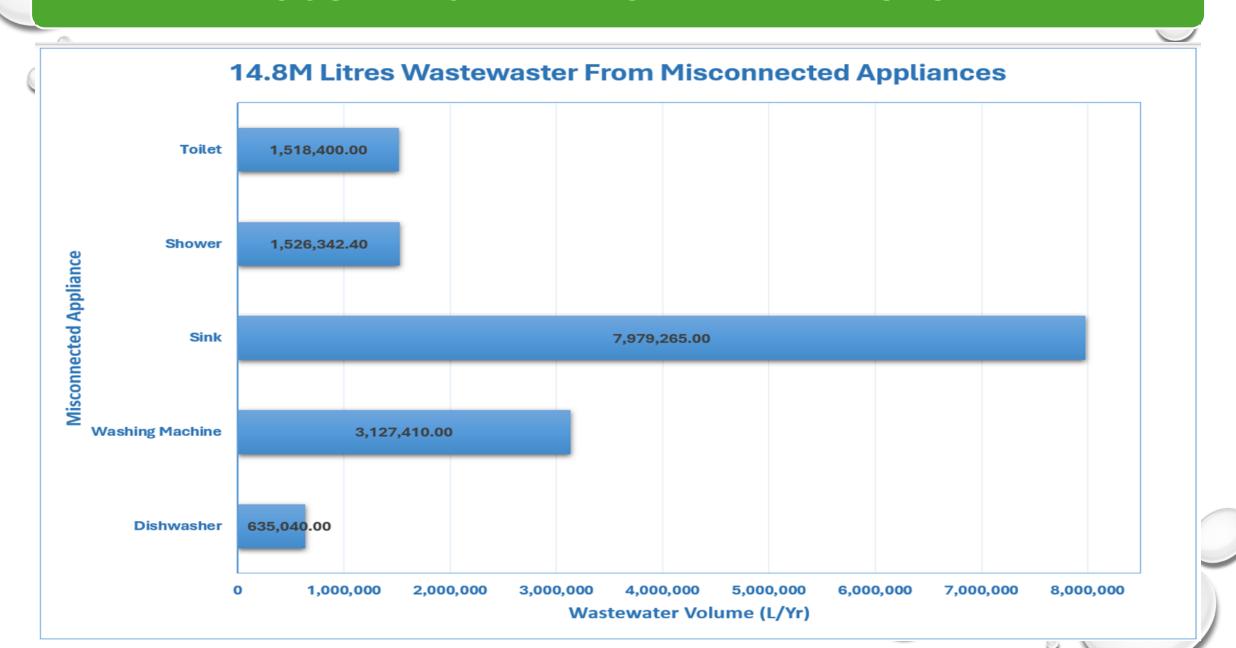


#### **Water Quality Results**





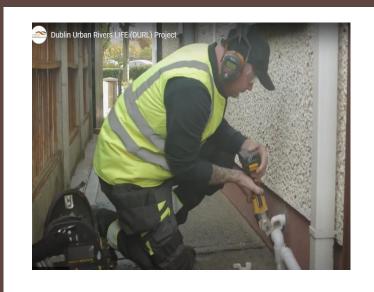
#### MISCONNECTED WASTEWATER VOLUME

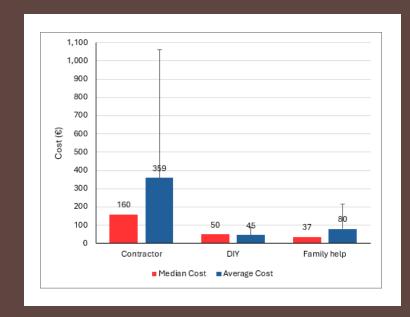


# **CORRECTED MISCONNECTIONS**



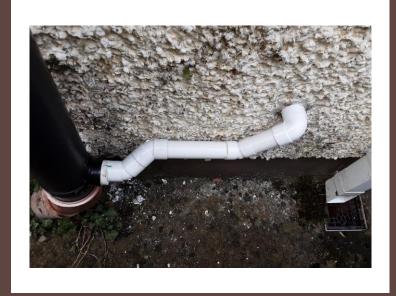




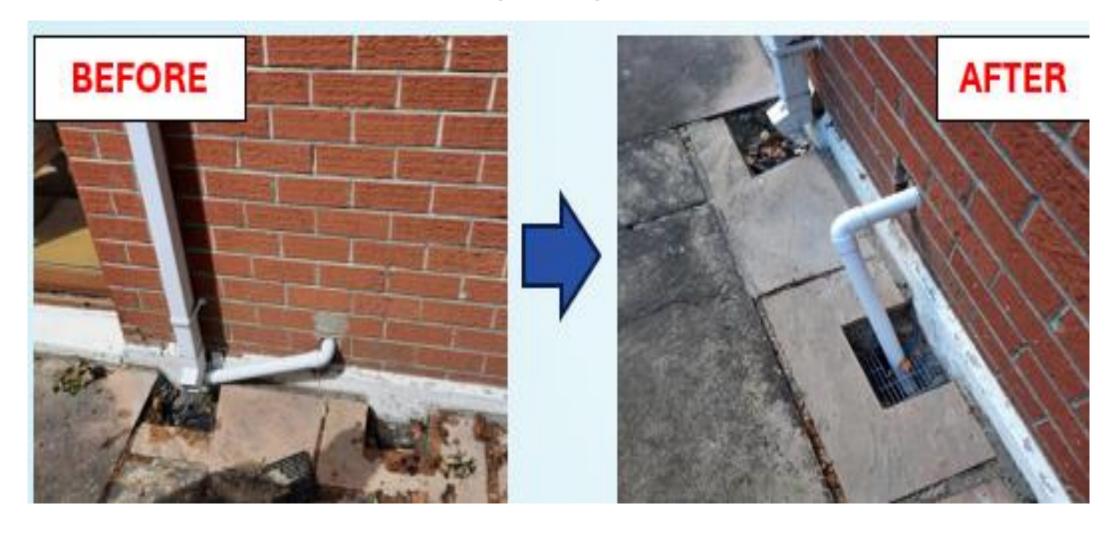




**Misconnection Repair Cost** 



# **Family Help €30**



# **Family Help €50**



#### **Contractor €80**



# **Contractor No Charge €0**



# Griffeen Valley Park Integrated Constructed Wetland



# Dodder Valley Park Integrated Constructed Wetland













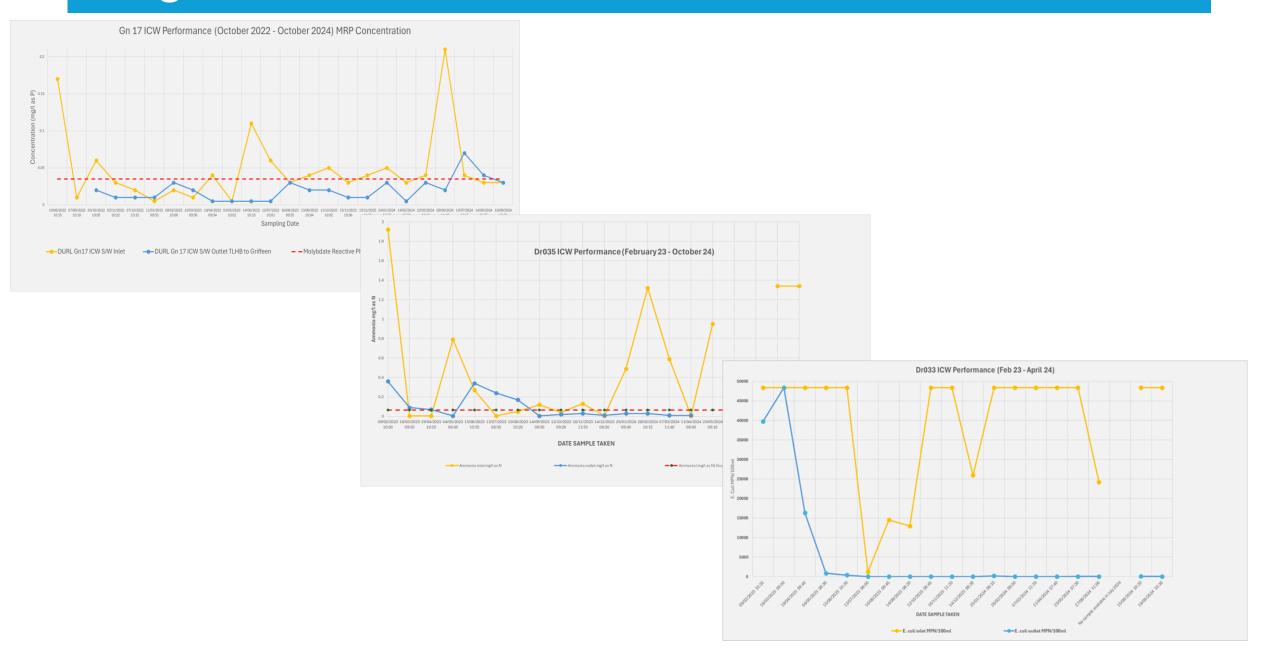


Community Planting Day:

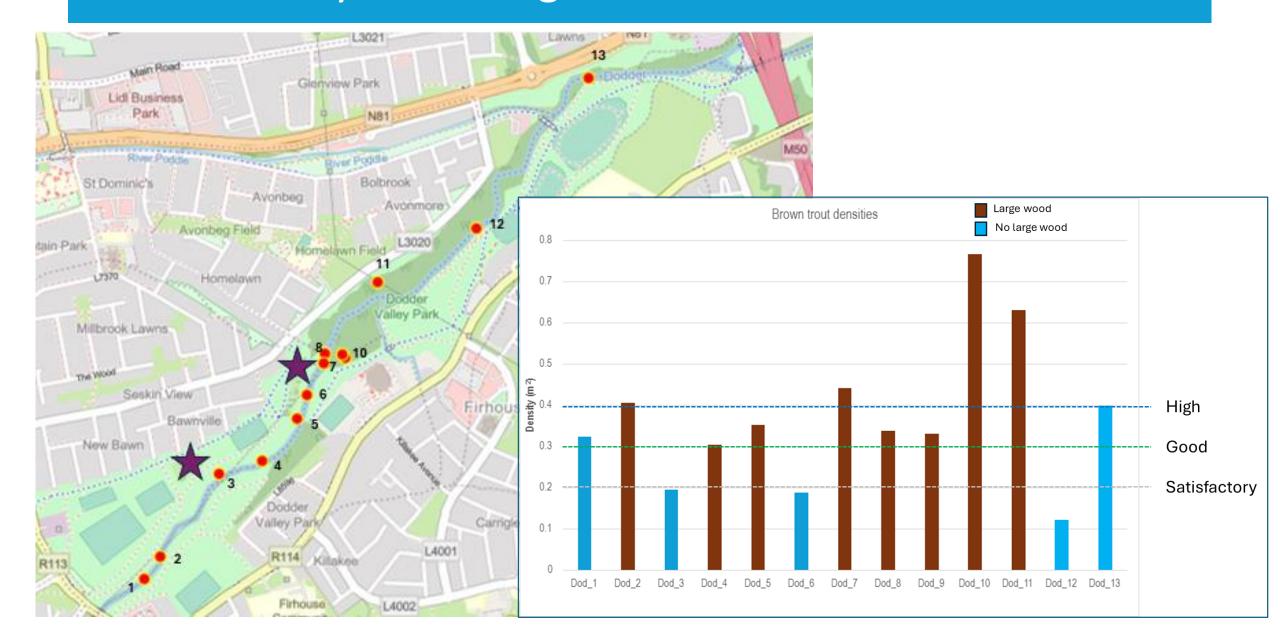




# Integrated Constructed Wetlands Build in 2022



# Dodder Valley Park Integrated Constructed Wetland



#### RIVER PODDLE ICW – SDCC & OPW

Tymon Park ICW as part of the Poddle Flood Alleviation Scheme – OPW collaboration

- Planning approved with conditions 1/06/2023
- 'Taking into account the ecological and water quality enhancement measures including the creation of new habitats for species and the integrated constructed wetland, and the mitigation measures which will address the main adverse impact namely loss of trees and woodland, I conclude that the proposed development would not adversely impact on the biodiversity of the area.'



#### **TRIMBLESTON STREAM ICW - DLRCC**



- Flashy stream with urban pressures impacting bathing waters
  - Merrion Strand
  - Sandymount Strand
- N11 stormwater runoff
- Utilising existing stormwater attenuation
- Store and treat portion of first flush

# **Decision Support Tool (DST) & ICW Builder Tool**

#### **Dublin Urban Rivers LIFE Project**





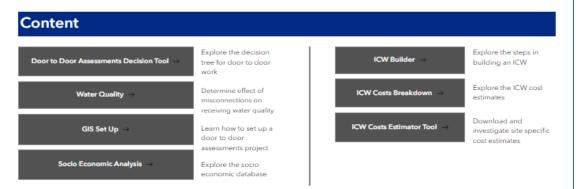


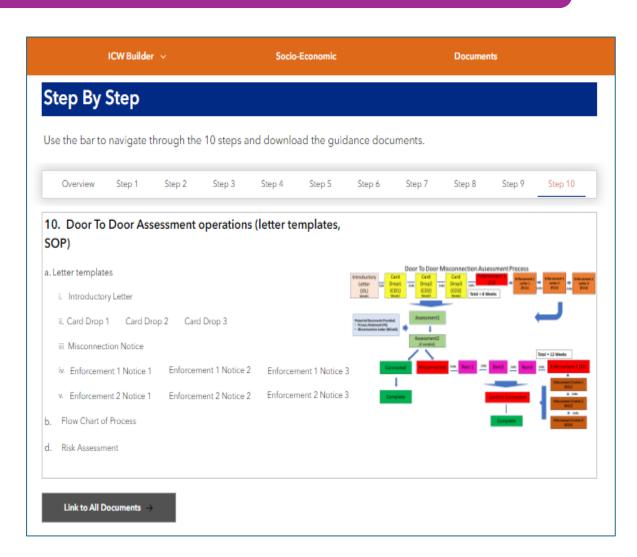
Funded by EU LIFE Programme

This website will enable users to begin their own domestic misconnection assessment project. It has been developed during the course of the Dublin Urban Rivers LIFE Project. This website is best viewed on a desktop.

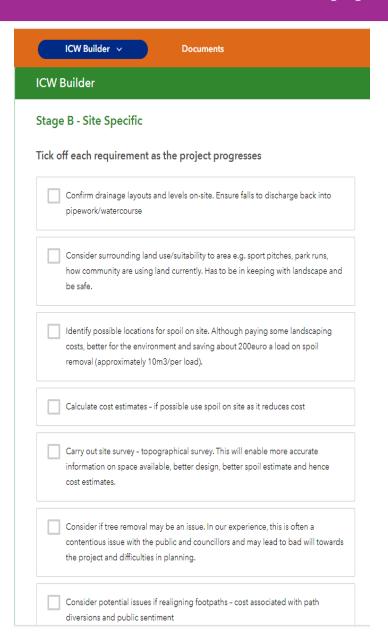
#### Goals

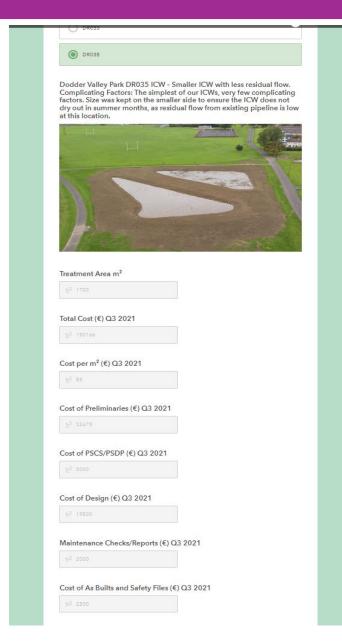
- · Help managers decide on options to improve water quality in urban areas
- · Provide best practice guidance for Door to Door Assessment work
- · Deliver a logical approach to enable user specific requirements
- · Identify costs and benefits of improving the function and value of urban rivers





### **Decision Support Tool (DST) & ICW Builder Tool**













#### **Thank You**

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Website:

www.dublinurbanriverlife.ie

