






Mert Thompson - Catchment Team

WATER FRAMEWORK STAKEHOLDER WEBINAR

Legend

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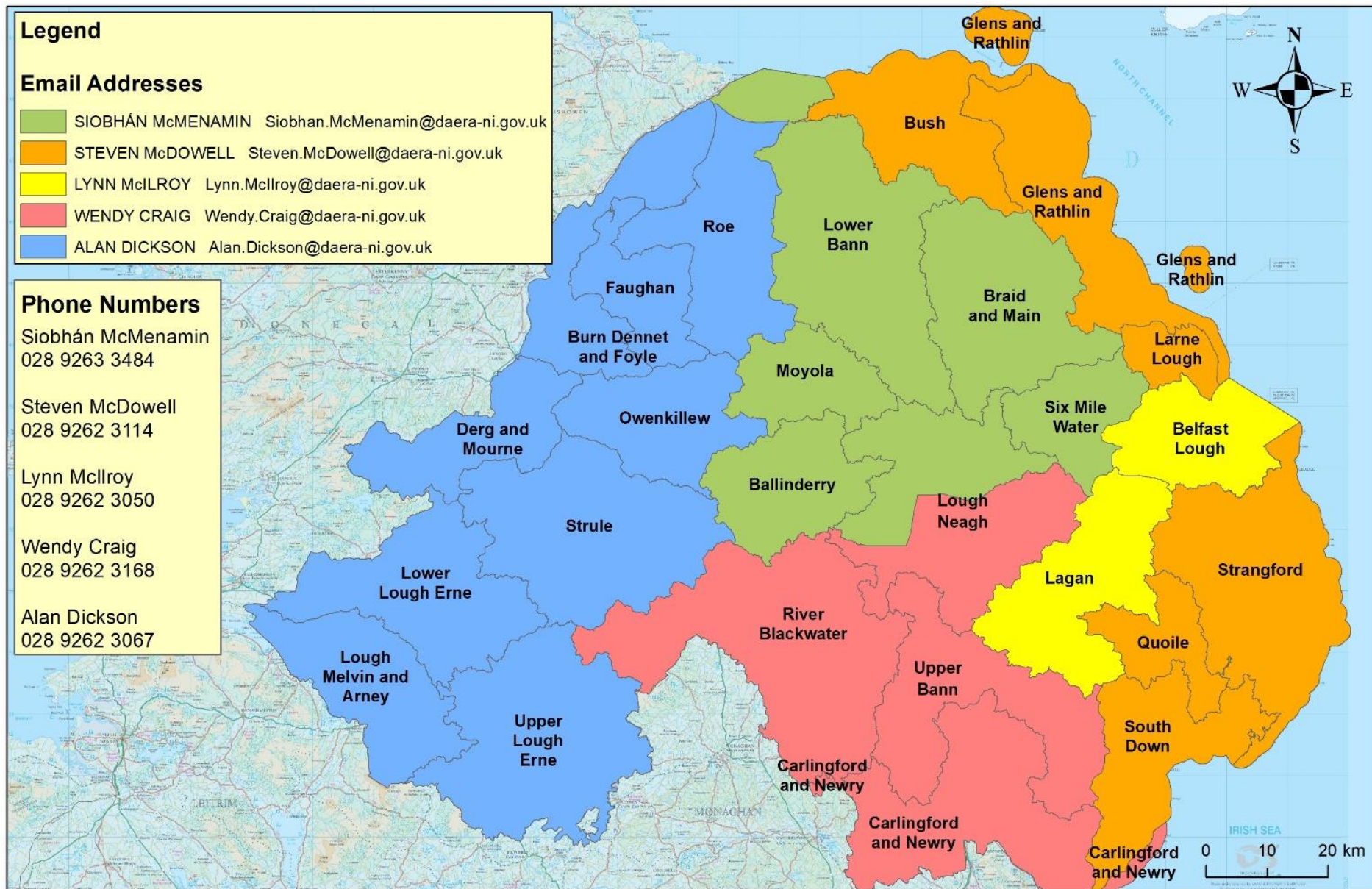
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**Catchment Management Officer
(CMO) Areas - August 2020**

How to report water pollution

Water Pollution Hotline

to report an incident of water pollution telephone

0800 80 70 60

Freefone Number, 24hrs, 7 days a week. *Mobile calls are charged at standard network rates

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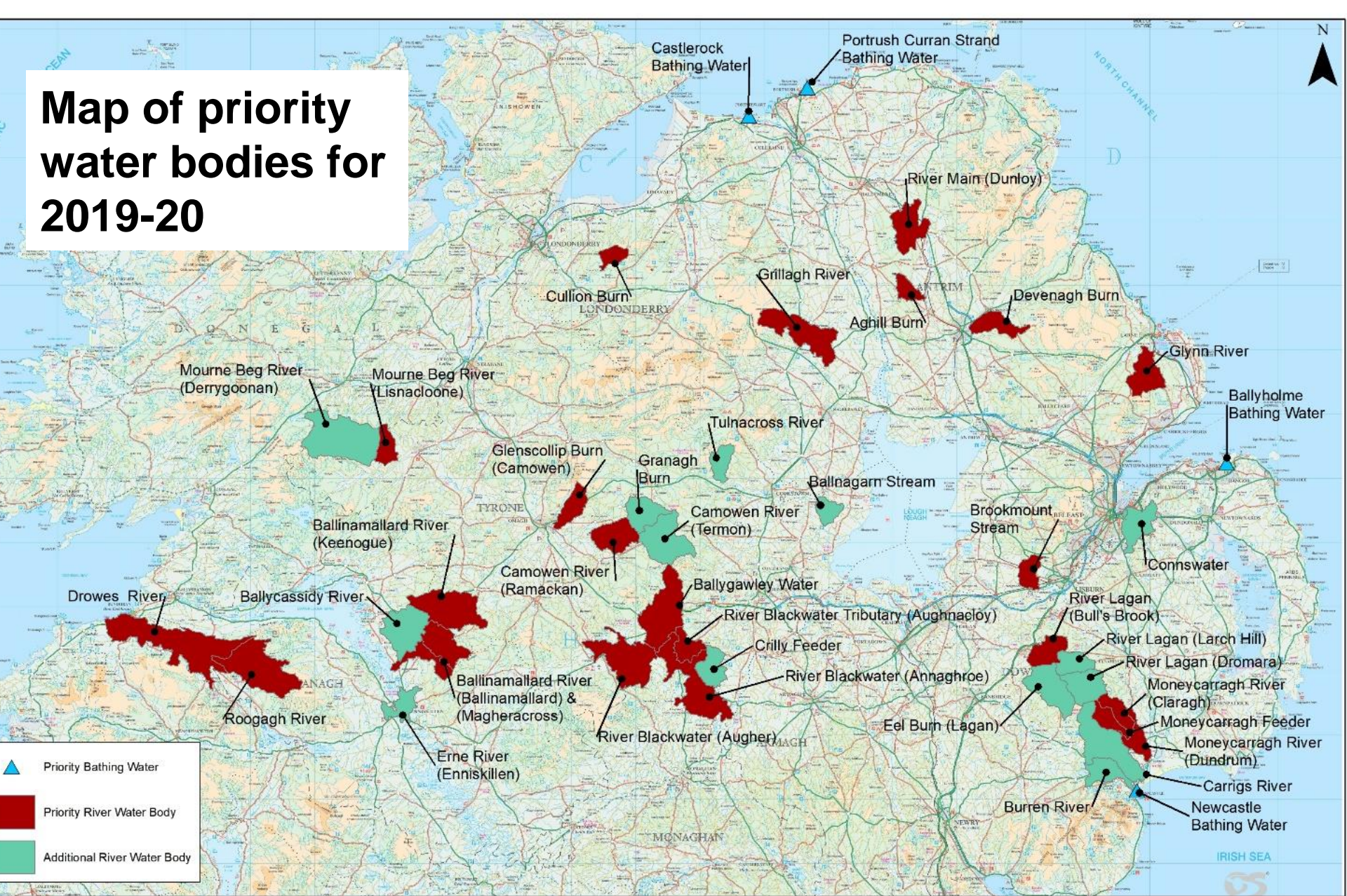
NIEA Catchment Team Investigations

Rational for the selection of Priority Water Bodies for investigation in 2019-20:

- Deteriorations in WFD classification is the principle driver
- Bathing water failures
- Investigation in Dundrum Bay
- Water bodies flagged by the Border Regional Operations Committee

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Map of priority water bodies for 2019-20



9-20 Priority Water Bodies

10 20 km

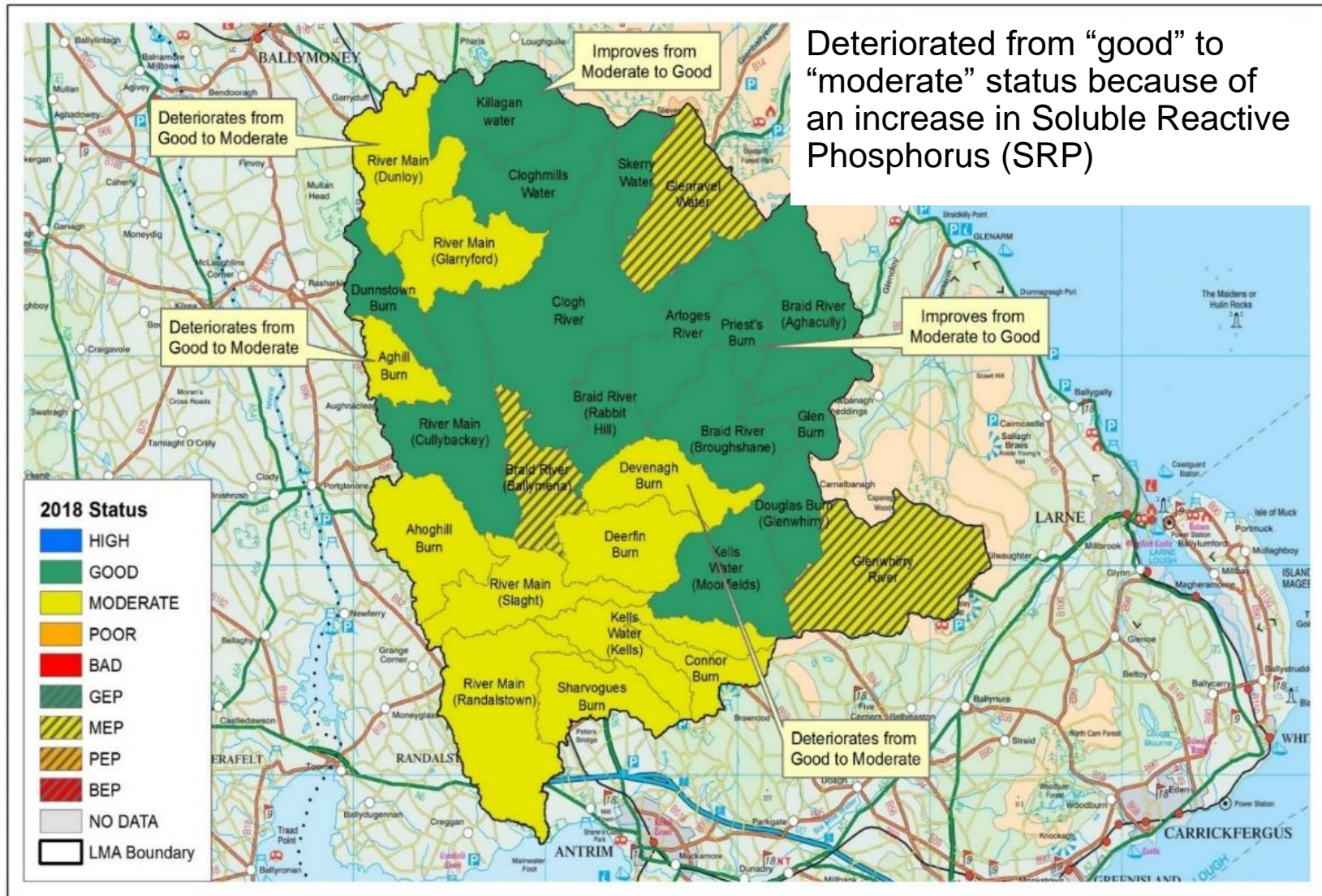
NIEA Catchment Team Investigations

What a Catchment investigations involves:

- Desktop study to help identify pressures
- Additional sampling and survey work throughout the catchment to determine areas and types of pressures
- Report produced from each catchment investigation with a series of recommendations to address identified issues
- The catchment team take forward these recommendations

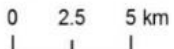
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An example of a Catchment investigation: Devenagh Burn



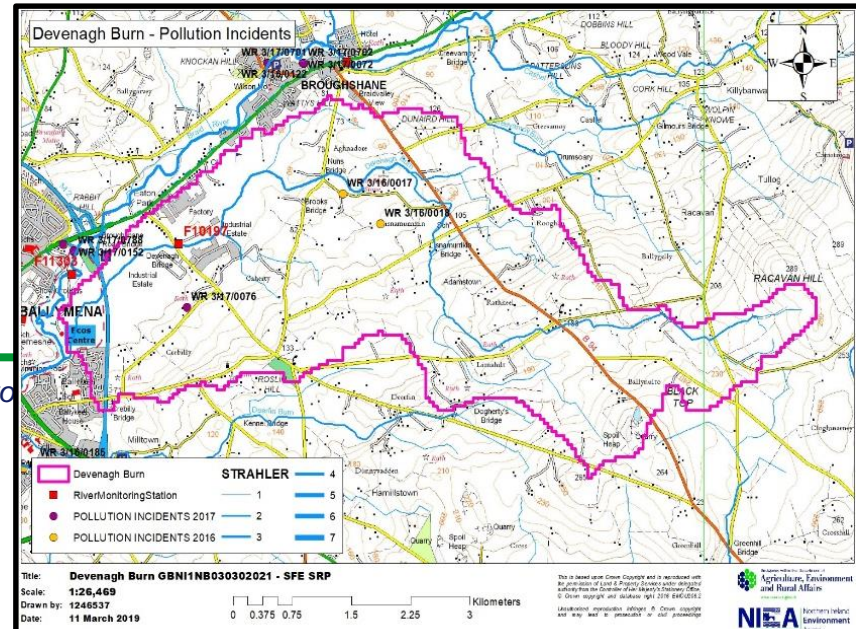
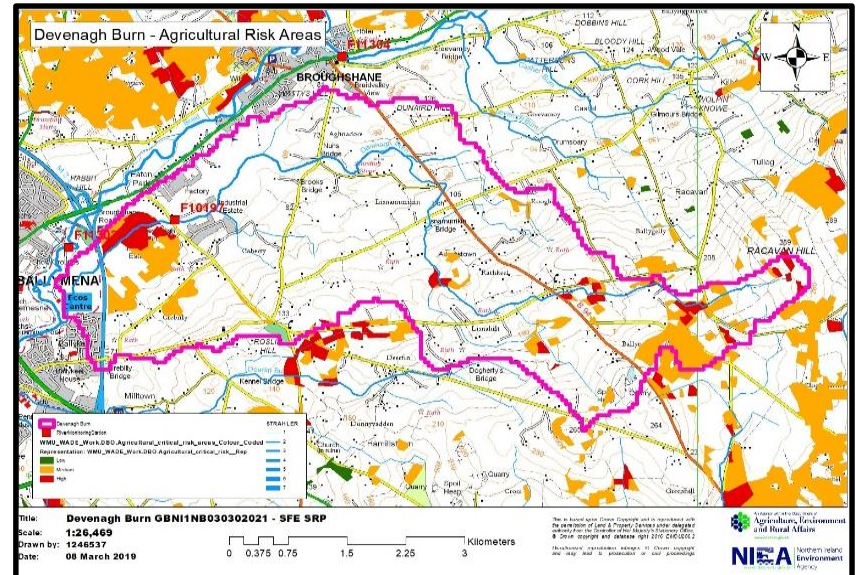
Deteriorated from “good” to “moderate” status because of an increase in Soluble Reactive Phosphorus (SRP)

**Braid and Main LMA
2018 Interim Status**



Devenagh Burn Catchment Investigation

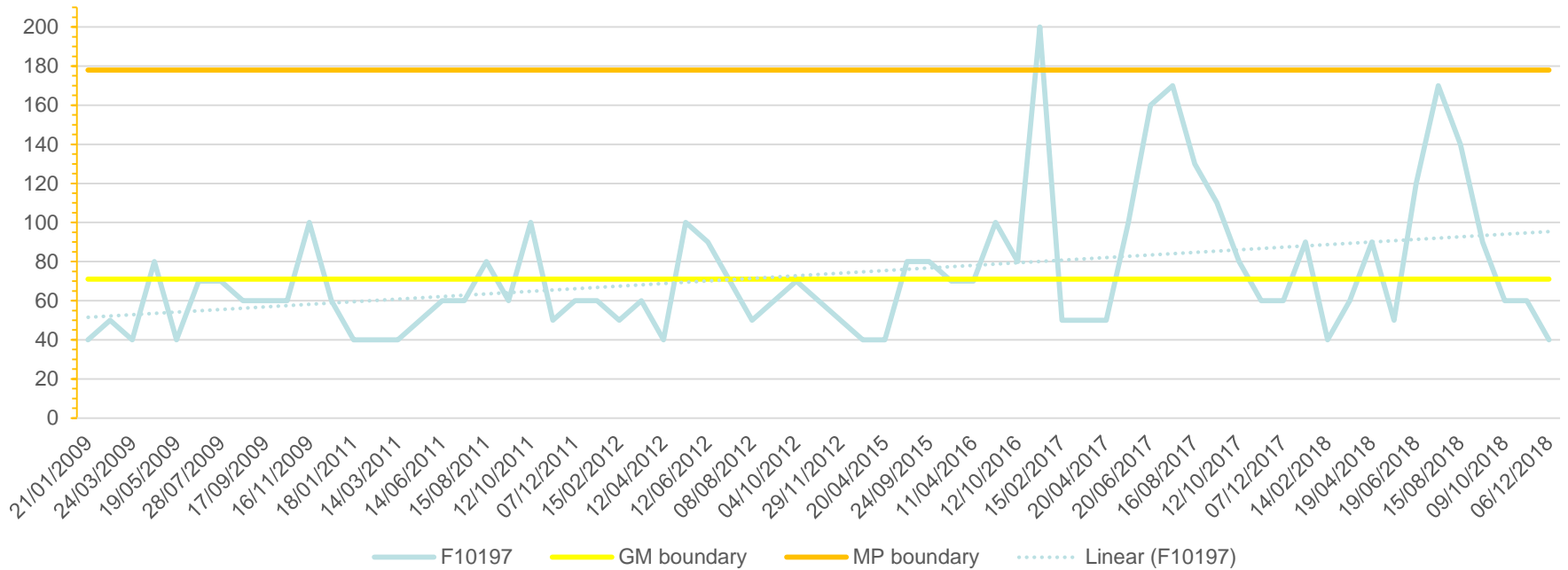
- Investigation starts with a desk top study
- Assess pressures and threats
- Analyse trends



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Devenagh Burn Catchment Investigation – Trend analysis

F10197 - Devenagh Burn at Devenagh Bridge - SRP $\mu\text{g/l}$ (2009 - 2019)

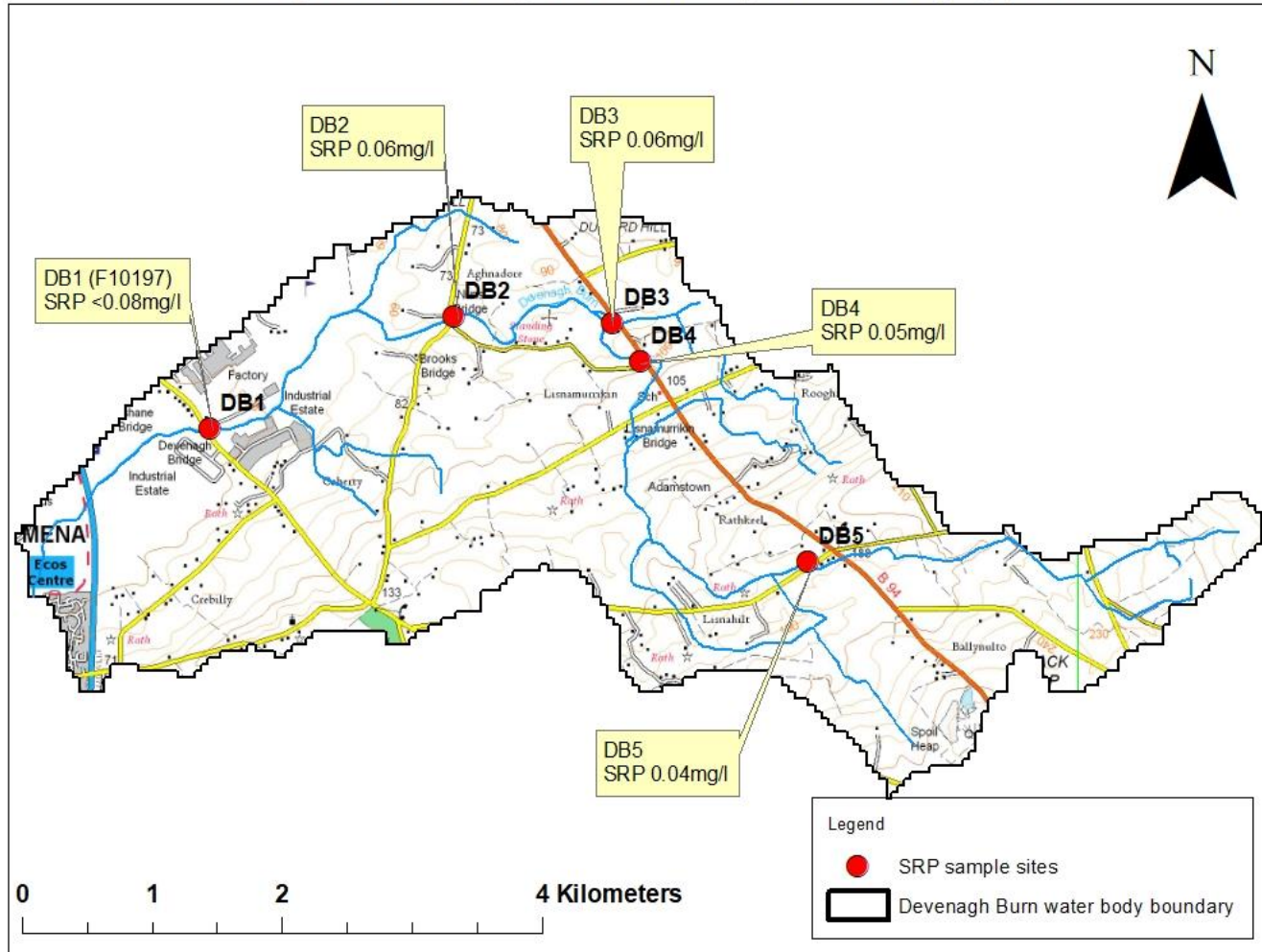


Variable	ALK	BOD			DO	NO2_N	NH4_N	NO3_N	PH	PSOL	SS	Z N T O T 2
Sig_All_Seasons	NS	↓↓↓			NS	NS	↓↓	NS	NS	↓		
Sig_Sep_Nov	NS	NS			NS	NS	NS	NS	NS	NS		
Sig_Jun_Aug	NS	↓			NS	↓	↓↓	NS	NS	NS		
Sig_Mar_May	NS	NS			NS	↑	NS	NS	NS	NS		
Sig_Dec_Feb	NS	NS			NS	NS	↓	NS	NS	↓↓		

Devenagh Burn Catchment Investigation

- Focused catchment work to identify pressure sources
- Additional sampling to pinpoint nature and location of pressures

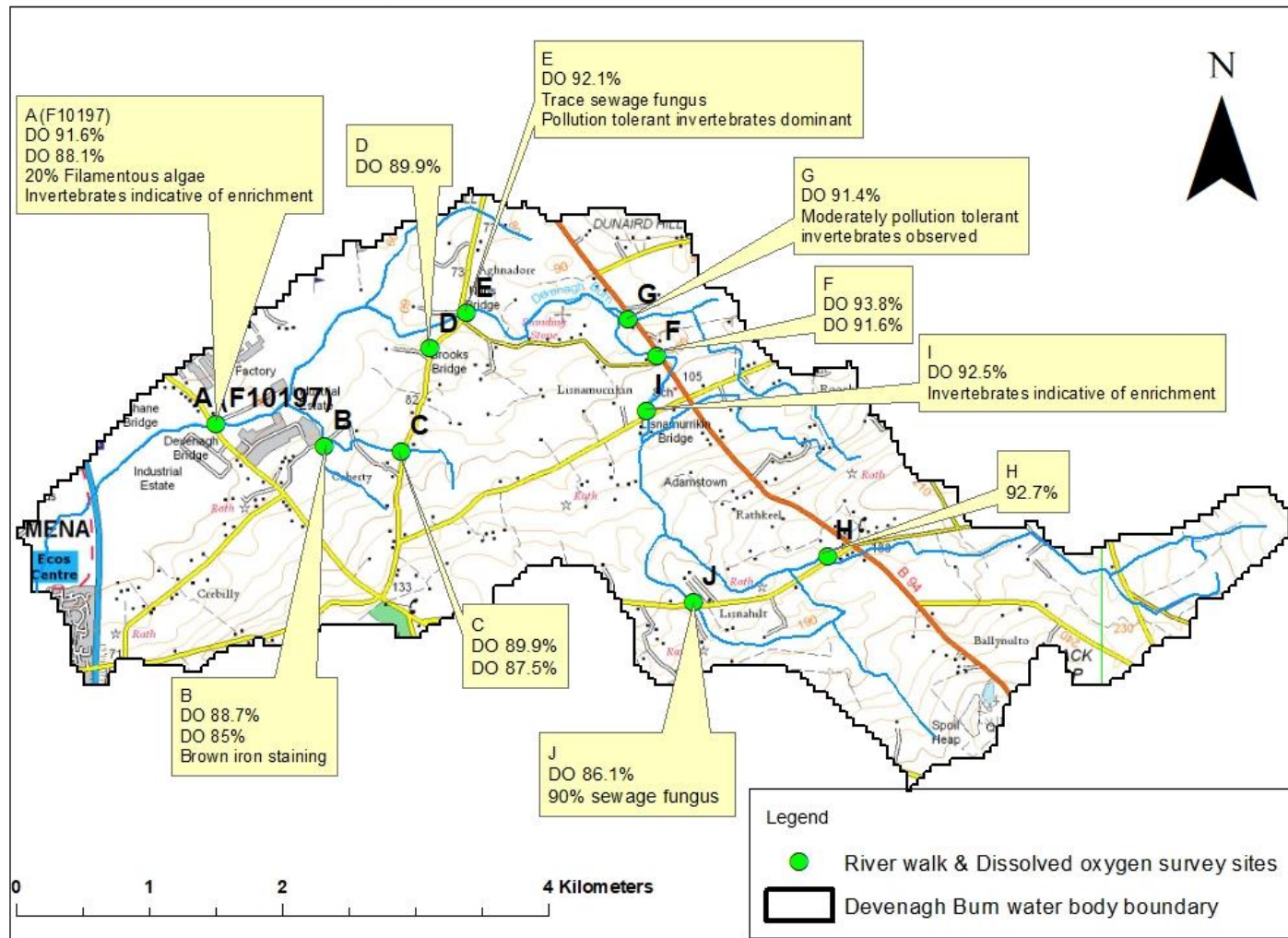
Devenagh Burn investigative chemistry sites - SRP (mg/l) results



Devenagh Burn Catchment Investigation

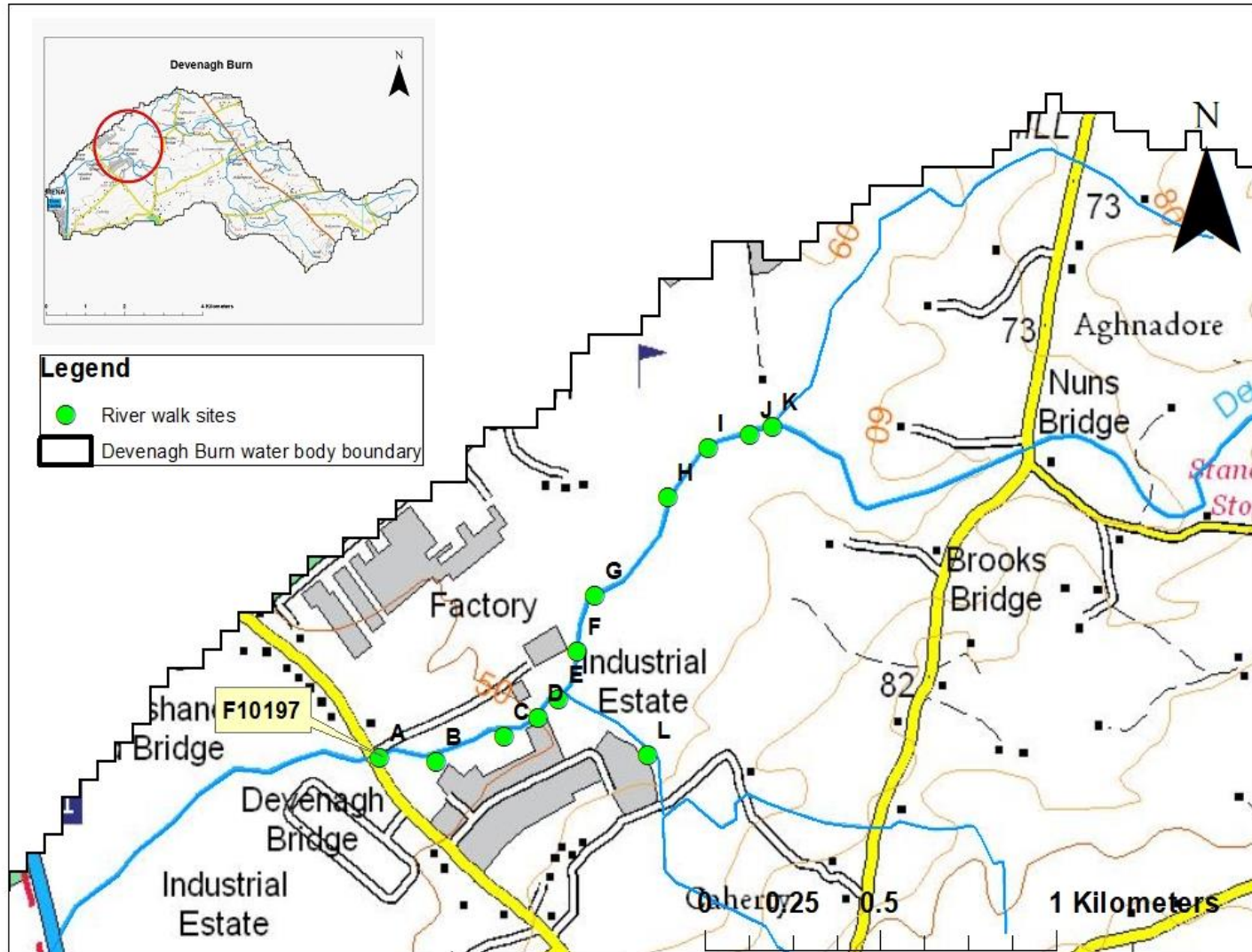
- Dissolved Oxygen and biological indicators

River walk and Dissolved Oxygen survey observations (15 October 2019 and 27 November 2019)



Devenagh Burn Catchment Investigation

- Observations on a River walk-over survey



Summary of all 2019-20 waterbody investigations

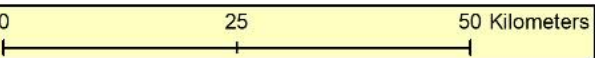
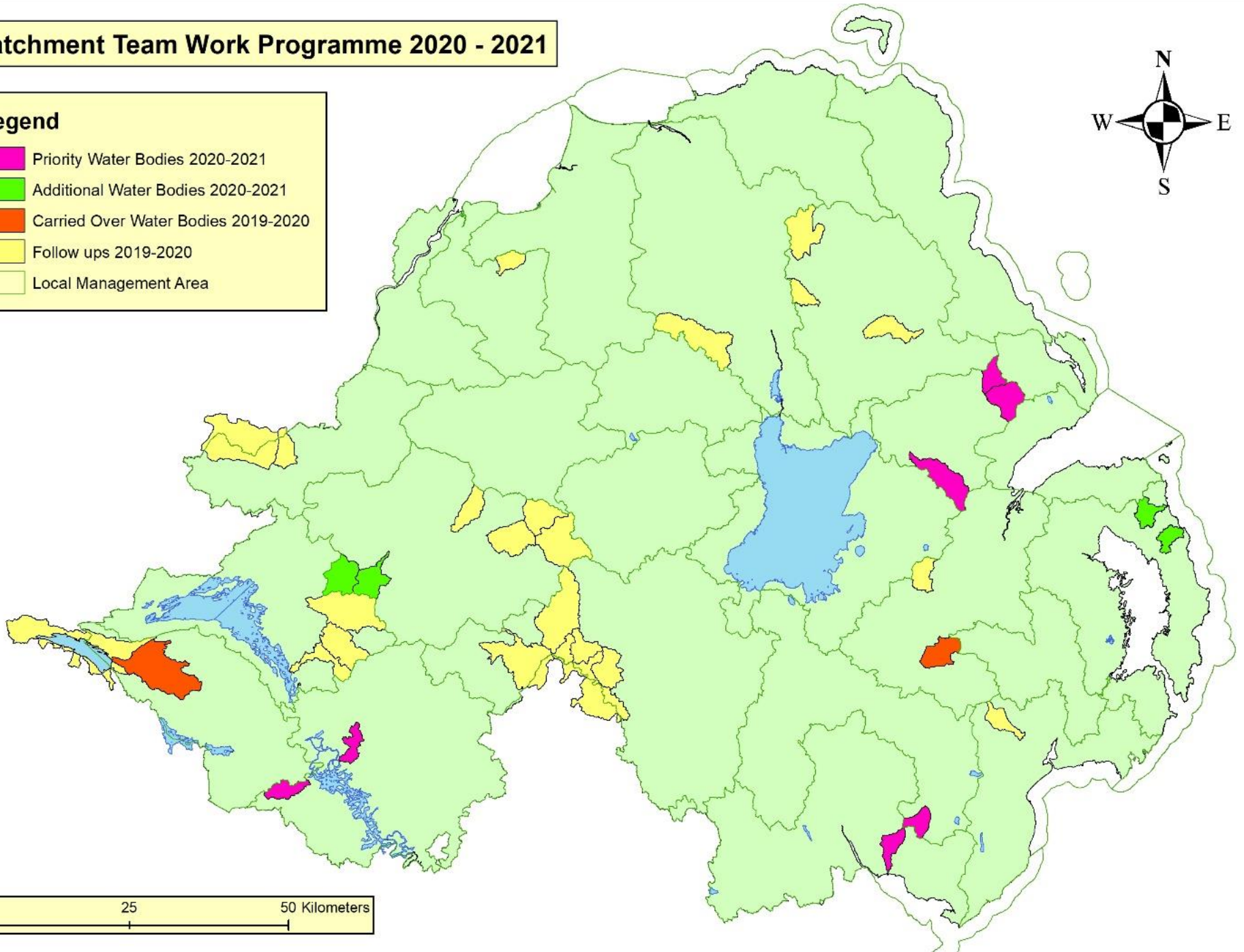
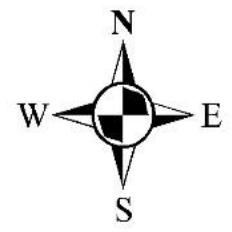
➤ Farms highlighted to Pollution Response team	36
➤ Industrial premises reported to the Pollution Response team	1
➤ Farms visited by agriculture regulation team for Cross Compliance	37
➤ Premises / areas highlighted to the Pollution Prevention team	1
➤ Farms highlighted for Environmental Farming Scheme	112
➤ Farms identified for nutrient advice	704

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Catchment Team Work Programme 2020 - 2021

Legend

- Priority Water Bodies 2020-2021
- Additional Water Bodies 2020-2021
- Carried Over Water Bodies 2019-2020
- Follow ups 2019-2020
- Local Management Area



Overview of the Catchment Team investigations in 2020-21

- Desk top study complete
- Additional sampling ongoing
- Additional survey work ongoing

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NIEA Environment Fund – Water Quality Improvement Strand

- A fund worth £150,000 focused on water quality improvements was announced in August
- Eight projects successfully applied for funding sharing £113,453

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Overview of the Water Quality Improvement Strand projects

Organisation	Project Title	Key elements of the project
Sea2it C.I.C	Tackling Invasive Species & Litter, Bann Estuary.	Beach clean ups and Invasive species control and public participation element.
Creggan Country Park	Restoring the Res	Wetland creation for water quality improvement; invasive species control, and public participation element.
Ballinderry Rivers Trust	'River Guardians' Citizen Science Project	Training up "river guardians".
Lagan Rivers Trust	Weir Removal River Lagan River Restoration Project.	Putting in place flood risk maps, fuluvial audit and river restoration plans.
Wildfowl and Wetlands Trust	Wetland Treatment System Upgrade, Castle Espie	Upgrading the existing wetland used to treat the effluent for Castle Espie.
Newry Mourne and Down District Council	Delivery of Water Resource Management Programme for the Ring of Gullion	Engaging with farms and local stakeholders to put in place water management plans, and public participation.
The Woodland Trust NI	Faughan Valley Wet Woodland	Put in place a wetland to capture and treat run off.
Glenavy Conservation and District Angling Club	Glenavy River – Love our Water – Love our Fish Project	Riparian planting and public participation

Example of Work supported

Glenavy Conservation and Angling Club are undertaking riparian tree planting as part of their project.



Example of Work supported

Lagan Rivers Trust weir investigation project



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Example of Work supported



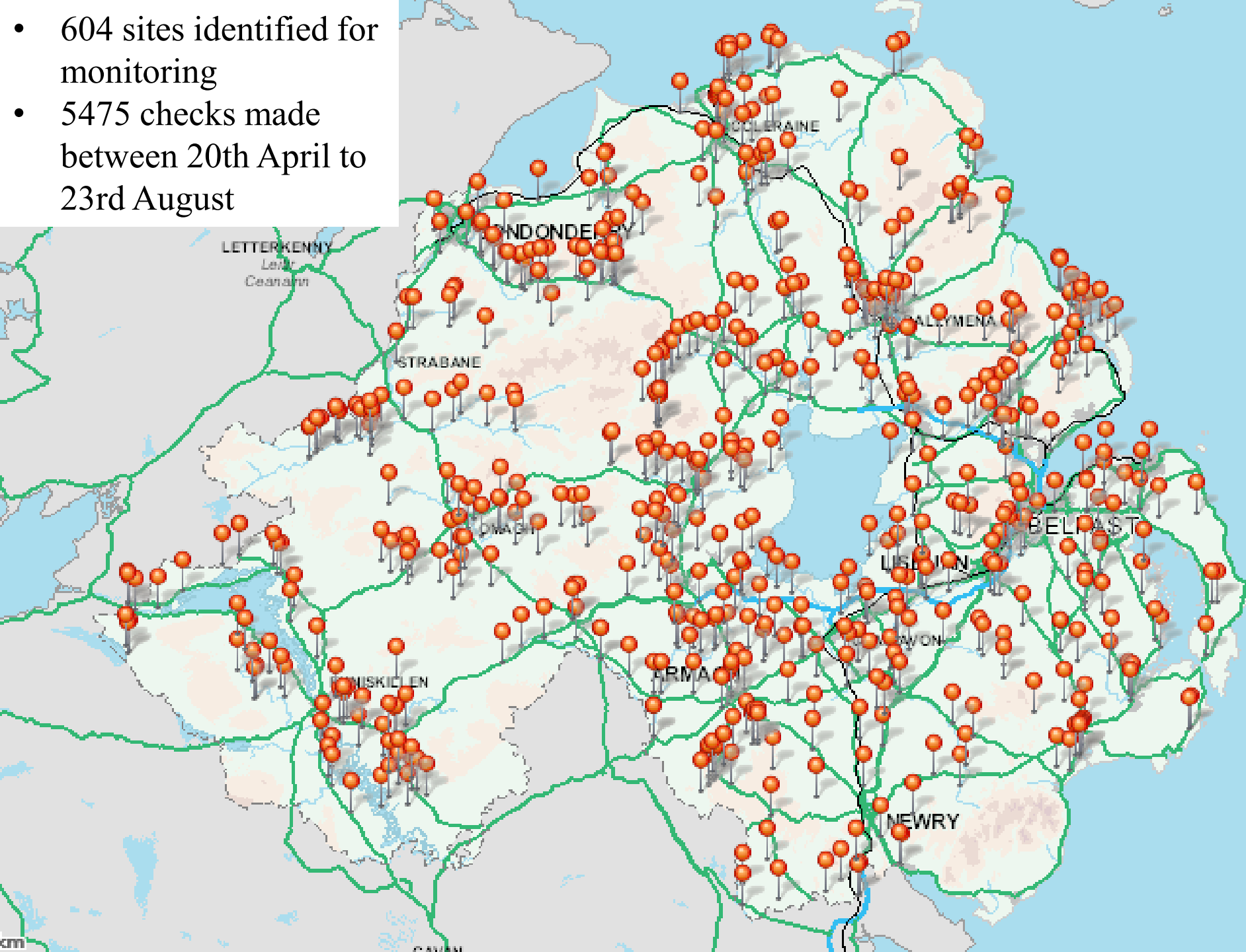
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Pollution response during Covid 19

- **Lockdown in March resulted in significant change in operations**
- **Move to home working**
- **Establishment of Daytime Duty Officers**
- **Maintenance of out of hours response**
- **Protection of key water resources**

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- 604 sites identified for monitoring
- 5475 checks made between 20th April to 23rd August

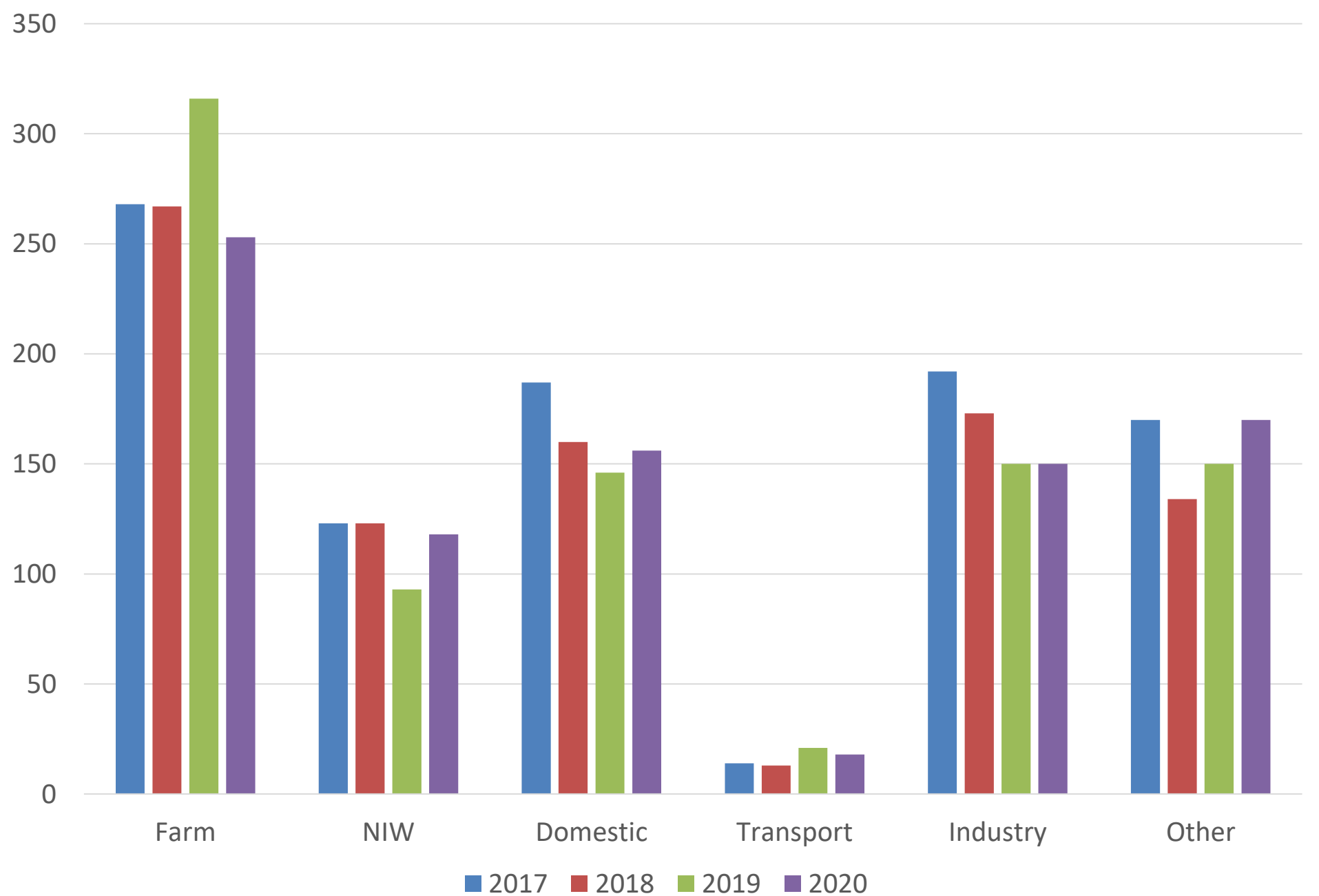


Pollution statistics Jan-Nov 2020

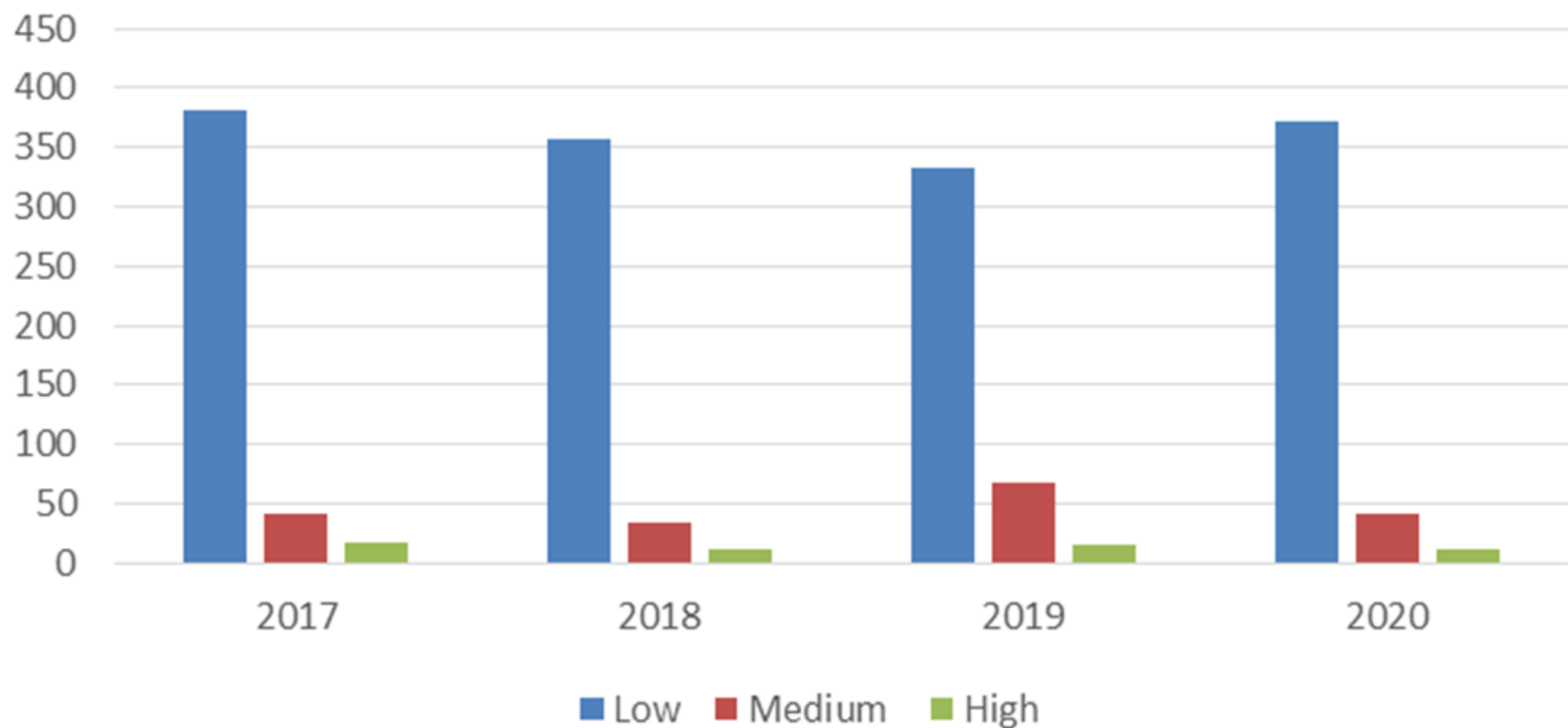
Source	Low	Medium	High	Total
NIW Ltd	109	9	0	118
Domestic	153	3	0	156
Farm	195	50	8	253
Transport	18	0	0	18
Industry	119	25	6	150
Other	156	10	4	170
Total Confirmed	750	97	18	865
NPF	-	-	-	916
Total	-	-	-	1781

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Total pollution numbers by source 2017-20 (Jan-Nov)



Total Incidents 23rd March - 31st August 2017-2020



97 Medium
Severity Incidents

75 have
Enforcement
Action underway

22 where No
polluter Identified

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18 High Severity Incidents

8 have
Enforcement
Action underway

2 Still under
investigation

8 Where no
polluter Identified

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Enforcement Action can be.....

- Prosecution Case
- Warning Letter and Cost Recovery
- Cross Compliance Breach (Basic Payment Schemes penalty)

At present there are:

- 17 Files with the PPS
- 18 Files in preparation

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Summary

- **Catchment Investigations have continued throughout 2020 and will continue in 2021**
- **8 Water Quality Improvement projects are underway and will be completed in 2021**
- **Pollution response remained active during Covid lockdown with no obvious reduction in incidents**

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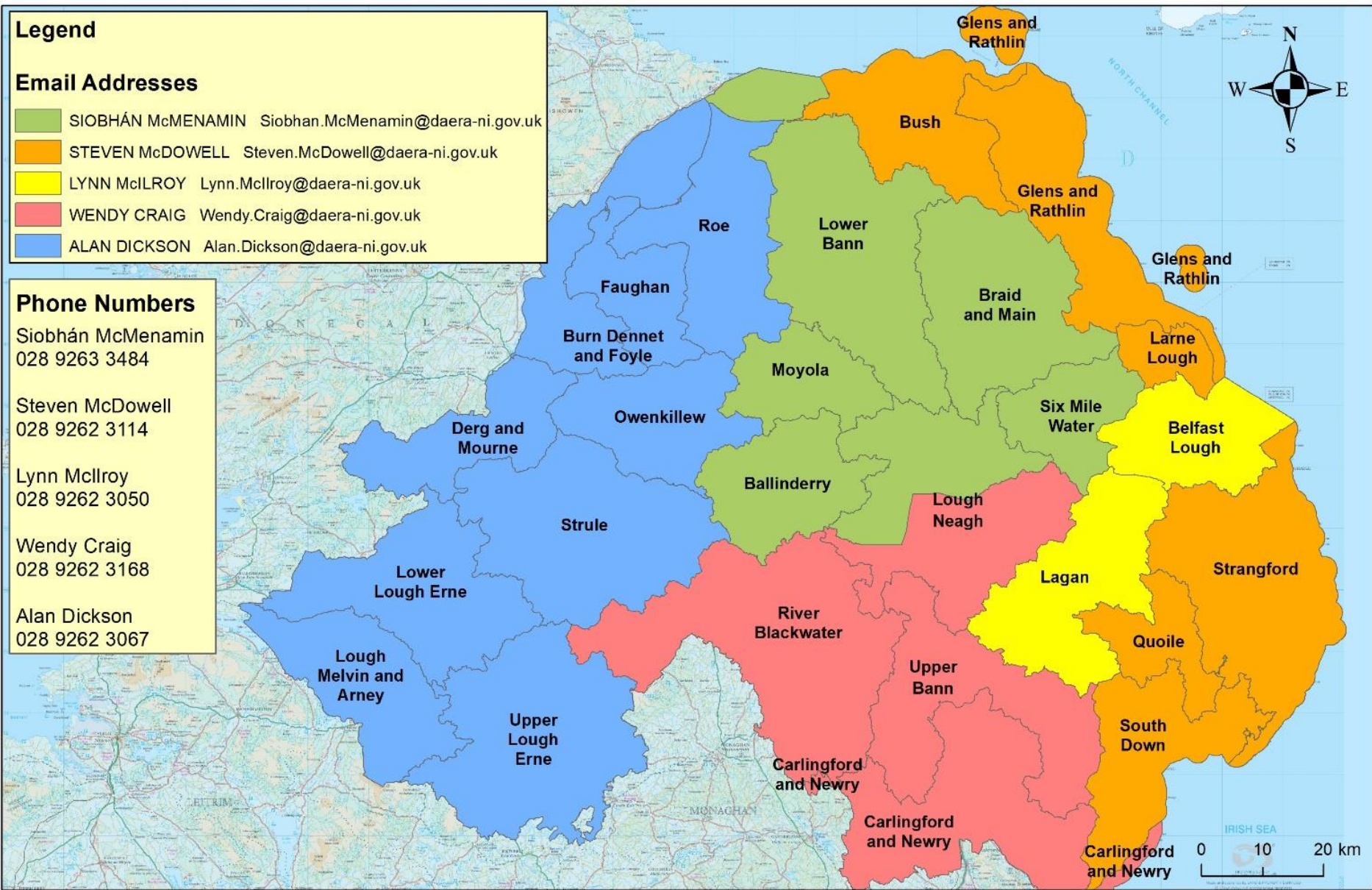
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**Catchment Management Officer
(CMO) Areas - August 2020**



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Water Framework Directive Stakeholder Webinar 2020

WATER FRAMEWORK STAKEHOLDER WEBINAR



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