Irish Water

Leakage Reduction Programme

First Fix Leak Repair Scheme

For Domestic Water Customers
H2 2020 Report





1. Introduction to the Leakage Reduction Programme¹

Water is one of our most valuable resources. Clean potable water is expensive to produce and distribute and one of Irish Water's key priorities is to reduce the level of water wasted through leakage. Irish Water produces approximately 1.7 billion litres of treated water every day. In 2020 some 587 million litres per day were utilised by domestic households, 349 million litres per day were utilised by non-domestic customers with approximately 678 million litres per day reported as unaccounted for water (UFW)². To date, IW has reported on UFW which represents the difference between "net production" (the volume of water delivered into IW's network) and "consumption" (the volume of water that can be accounted for by legitimate consumption, metered or not). The difference includes water losses due to leaks.

In order to calculate UFW, IW subtracts the following factors of consumption from net production or distribution input (DI) to IW's water network:

- Water Delivered to Customers: an estimate of the water demanded by domestic and non-domestic
 customers; includes measured and unmeasured demand, water lost to leaks on the customer's
 property, under registration of water use due to treatment, old or broken meters and water used on
 IW sites and treatment plants (water taken legally);
- Distribution system operational use: IW's estimate (1% of DI) of water it uses on the distribution system, for example to clean and flush water mains; and
- Water taken legally unbilled: estimate of water used by fire services, water treatment plants, operational use and other unbilled use.

IW categorises the remainder of the water put into the distribution network as UFW³, which is an indication of the amount of water lost to leaks on IW's public network. As highlighted above, under the current UFW calculation, water lost to leaks on the customer's property is included in the 'accounted for water' category. To enable robust, consistent reporting on Leakage, IW has implemented a new National Leakage Management System (LMS) which is estimated will enable IW to report on national leakage from 2021.

Irish Water is progressing the National Leakage Reduction Programme, LRP, which targets resources at areas of highest leakage and lowest headroom across water networks. As part of our Investment Plan 2020 to 2024, we are spending circa €400m on Leakage Reduction Programmes. We also plan on spending circa €37m on the First Fix Scheme from 2020 to 2024.

The overall aim of these works is to reduce leakage on a national scale to economically sustainable levels, leading to improved water network performance and reliability. The Leakage Reduction Programme and associated works will ensure a clean, safe and reliable public water supply now and into the future to support our growing population and economy.

For this programme, Irish Water has sub-divided the country into eight regions and is working in partnership with local authorities and regional contractors to plan and complete activities. Details of the Leakage

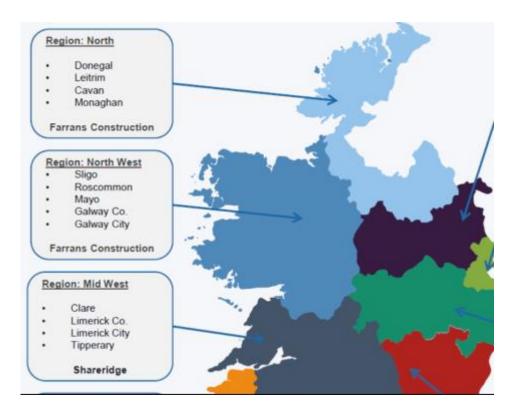
¹ Following the completion of the Metering Programme in Q1 2017, the First Fix Leak Repair scheme moved to become part of the wider national Leakage Reduction Programme.

² See section 13.1.3 of the CRU's Energy and Water Monitoring Report for 2020 here

³ Real water losses (loss of water on the distribution due to network leakage), water used by Irish Water to flush mains and apparent losses (unauthorised water use, e.g. illegal use of standpipes and under-recorded customer use because of incomplete data).



Reduction Programme regions and contractors can be seen below.



The scope of the works included in the Leakage Reduction Programme (LRP) includes undertaking improvements under the following seven principal work streams;

1. DMA (District Metering Area) Works

This involves the identification of groups of premises and the installation of a district meter to monitor water usage. This identifies works needed within the DMA to ensure efficient operations.

2. Find & Fix

The Find & Fix scheme involves leak detection crews undertaking surveys using sounding equipment to locate leaks on pavements and other public areas. If a public side leak is identified, Irish Water will carry out the necessary repairs.

3. First Fix Free

The First Fix Free scheme offers free leak investigations and free repairs for qualifying properties where a constant flow of water is found on the external water supply pipe. Irish Water estimates that over 164 million litres of water per day have been saved as a result of this scheme to the end of H2 2020 including, 6.68 million litres per day saved in H2 2020. Further information on the First Fix Free scheme can be found at https://www.water.ie/water-supply/first-fix/.

4. Mains Renewal including Shared & Backyard Services



Water mains renewal works usually include the replacement or renewal of ageing public water mains to improve water quality and supply. As our water pipes are underground, we need to dig down to inspect the pipes and carry out any necessary repairs or replacements.

A shared service connection means that two or more properties are fed by a single water pipe. These connections pipes are often made of iron or lead and prone to leaks.

In some older properties water connections may be installed to the back of the property and run through customer's back gardens. These connections are prone to leaks and can cause reduced levels of service and poor water pressure.

5. Lead Services

Lead in drinking water is a recognised health concern. We will be investigating the pipes that connect individual properties to the public water mains and replacing any lead pipes with new plastic pipes.

6. Non-Domestic Metering

Irish Water is replacing old non-domestic meters installed by the Local Authorities with new meters that have Automatic Meter Reading technology. The new meters allow for more accurate and timely billing for customers and better identification of leakage on non-domestic customer sites.

7. Pressure Management

Pressure management works are required to improve the quality and security of water supply to customers. The aim of these works is to reduce leakage within the mains network and to ensure a consistent supply of water to all customers. Too much pressure in the network can result in burst pipes and leakage. This can then result in a low water supply pressure for customers at the tap.

2. Overview of First Fix Free Scheme

In May 2014 the Government announced funding of €51m for a scheme to address water leakage on pipework within customer properties under a "First Fix" scheme⁴. Following a public consultation in August 2015 the Commission for Regulation of Utilities (CRU) approved Irish Water's proposed First Fix Leak Repair Scheme. The First Fix Leak Repair scheme was mobilised under the national Domestic Metering Programme. In its RC3 determination⁵ the CRU outlines its ongoing support for the First Fix Leak Repair scheme.

Under the First Fix Leak Repair scheme, Irish Water assists customers by notifying them where suspected leakage is occurring within the boundary of their property. Leaks which are identified on the external supply pipe serving a property are offered a free leak repair. The First Fix Leak Repair scheme does not apply to leaks within a dwelling.

Utilising meter read data to identify the most significant leaks has proven key to operating the First Fix Leak Repair scheme efficiently. Prior to the introduction of the First Fix Leak Repair scheme, leakage programmes had been based around time-consuming and labour-intensive sampling of areas in order to seek to detect anomalies on pipework. The Irish Water domestic metering programme has provided both the platform and the technology-based solution to address this challenge. Data obtained from meter reading information

⁴ As outlined in section 8 of this report, IW is currently working within this original revenue allowance.

⁵ Published on 5 December 2019 and available at <u>www.cru.ie</u>



highlights unusual water usage patterns and allows Irish Water to isolate the source of leaks to a particular property, thereby reducing the time required for leak investigation.

Given the need to prioritise water conservation, Irish Water prioritises repairs under the First Fix Leak Repair scheme by size, based on the volume of water lost. A constant flow of water, (that is 6 litres per hour over a 48-hour period), will trigger a constant flow alarm (CFA) on the meter, indicating a potential leak. The largest leaks wasting the most water are priorities to be fixed first.

By the end of 2020, it is estimated that over 164 million litres of water per day has been saved as a result of First Fix repairs.

3. How to avail of the scheme

Customers can avail of the scheme, once they are aware of a leak on their property. The CFA alarm is triggered where a constant flow of water to the property is identified (6 litres per hour over a 48-hour period). When a CFA alarm is recorded, customers are issued with a letter from Irish Water, indicating a potential leak on their property.

Customers with a visible leak on their property can also contact Irish Water to avail of a free leak investigation.

Eligibility criteria and the process for availing of the scheme are outlined on the Irish Water website⁶.

4. Initiatives to increase Customer Engagement Levels

Following the completion of the First Fix Scheme under the Metering Programme in February 2017, Irish Water analysed engagement levels in order to establish initiatives to improve the First Fix process and increase productivity.

The First Fix scheme is relying on the following in order to achieve water reduction:

- The First Fix letter reaching its desired destination to inform the customer of the possible leak;
- The customer engaging with Irish Water in order to arrange a leak investigation, and
- The customer returning the signed waiver allowing Irish Water to repair the leak on their property.

The following initiatives have been implemented:

First Fix Letter

In order to increase performance of the scheme, Irish Water pursued the following initiatives:

• In the second half of 2020, Irish Water sent 6,898 First Fix letters to properties with a constant flow alarm (CFA). For comparison 7,040 CFA letters were issued in H1 2020. Letters were issued to properties with a constant flow alarm plus usage in excess of 1,000 litres per day. Targeting

⁶ See <u>here</u>.



customers above this level for the First Fix scheme is an attempt to engage customers in properties that are using over twice the national average usage. (342 litres per property per day, as calculated by the CRU (<u>CRU/17/339</u>)).

- The average daily usage of the property and the expected daily usage of 129 litres⁷ per person per day were included on the notification letter. This informs the customer of the quantity of excess usage at their property and will encourage the customer to engage with us in order to arrange a leak investigation.
- In order to improve customer engagement, IW improved the information it provided customers on the CFA notification letters (for example, by equating the amount of litres used at the premise to the equivalent average usage by a person). During H2 2020 notification letters were sent to properties newly appearing on the CFA list.
- The COVID-19 pandemic impacted the number of First Fix Letters issued in H2 2020. A decision was made, based on COVID-19 case numbers and projected case numbers, not to issue letters in Q4 2020.

Waiver Return Process

Under the metering programme, waivers were posted to customers that qualified for a leak repair following the investigation. The customer was required to sign the waiver and post it back to Irish Water. It was found that there was a delay in customers returning the waivers and in some cases the waiver was not returned.

Under the leakage reduction programme this process has been amended to increase the return of the signed waivers:

- Upon completion of the Leak Investigation, the crew issue the waiver to the customer and answer any questions the customer may have. If the customer is willing to sign the waiver at the time, the crew will return the signed waiver to Irish Water and a repair can be scheduled. They will also leave a copy of the waiver with the customer for their own reference.
- If the customer is not willing to sign the waiver at this time, the crew will issue the waiver and a prepaid envelope to the customer in the hope the customer will sign the waiver and post it back to Irish Water.

Irish Water is also encouraging our contractors to be pro-active and contact customers that have received a first fix letter but have not engaged with the scheme.

6

⁷ As calculated by the CRU and outlined in CRU/17/339.



5. First Fix Update

Due to the scheduled issuing of Household Water Conservation (HWC) scheme notification letters (in Q3 and Q4 2019) IW decided to pause, pending review, issuing CFA notification letters. This decision was taken to avoid potential customer confusion caused by receipt of multiple correspondences over a short period of time. We did, however, continue with 'cold calling' activities in Q3 2019 to aid engagement in the First Fix scheme and CFA notification letters began issuing again in Q1 2020.

In H2 2020, a significant amount of large leaks, identified as properties with usage in excess of 1,000 litres per day, appeared on the CFA list. When contacting customers, IW start with the largest users (properties with usage in excess of 5,000 litres per day). It was found that 2,898 properties were using more than 5,000 litres per day based on meter readings and were accountable for over 32 million litres of UFW per day (50%).

Targeting these users first will result in greater savings from fewer repairs and reduce the UFW more effectively. The remaining 21,867 properties using less than 5,000 litres per day but greater than 1,000 litres per day accounted for over 32 million litres of UFW (50%). The following table is calculated using information from the CFA list and figures calculated by the CRU (CRU/17/339) suggesting an average household consumes 342 litres of water per day.

Item	QTY of Leaks	Average usage (Litres))	Total Usage (Litres)	Expected Usage (Litres)	UFW (Litres)	% of UFW
>5 000 Litres	2,898	11,440	33,153,040	991,116	32,161,924	50%
1,000 - 5 000 Litres	21,867	1,818	39,756,060	7,478,514	32,277,564	50%
Total	24,765	2,944	72,909,100	8,469,630	64,439,470	100%

Table 1: UFW summary H2 2020

6. Reporting on the scheme

In April 2015, the CRU consulted on Irish Water's proposed First Fix Leak Repair Scheme for Domestic Water Customers and received eight responses. The CRU's decision on the policy, issued on 5 August 2015, was based on a review of the eight submissions received during the consultation period. Among its recommendations, the CRU expects Irish Water to strongly promote the scheme in order to increase customer awareness of the scheme and to encourage customers to engage with Irish Water on the scheme.

The CRU is monitoring the ongoing implementation of the scheme to ensure that the costs allowed are efficiently incurred and that benefits are achieved for customers. In line with the CRU's 2021 First Fix Scheme Policy Decision, Irish Water's performance in the First Fix Scheme will now be reported on a six-monthly basis to the CRU⁸. Irish Water previously reported performance on a quarterly basis⁹; this is Irish Water's first six-

⁸ See section 4.3 of the CRU's First Fix Scheme Policy Decision, April 2021 <u>here</u>

⁹ See Irish Water's First Fix quarterly reports from Q3 2015 to Q2 2020 here



monthly report covering the H2 (i.e. Q1 and 2) 2020 period. The following section outlines the progress of the scheme to the end of 2020. The CRU's 2021 policy decision expanded the eligibility criteria to the First Fix Scheme and the impact of these changes can begin to be assessed in future six-monthly reports.



7. Six month Summary

First Fix Scheme operations, including leak investigations and repairs, continued to be impacted by COVID-19 restrictions during H2 2020 and this is reflected in the figures reported in this section. Investigations and repairs were carried out in H2 2020, provided they were in accordance with COVID-19 restrictions/guidelines and approved IW Work Method Statements.

Customer Response Rates and Engagement Levels

A total of 6,727 customers have engaged with the scheme in H2 2020. This number is made up of the following;

6,239 Customers requesting a free leak investigation survey

488 Customer repairs completed from data collected from the meter

Leak Investigations

A total of 6,239 investigations were requested, which include repeat visits where customers installed an Internal Stop Valve (ISV) after an initial leak investigation visit.

Irish Water contacts customers within 10 business days to arrange a convenient time for an appointment to carry out the free leak investigation at a property. A total of 5,352 leak investigations were undertaken in H2 2020. This figure includes some investigations that were requested in H1 2020; similarly, some investigations requested in H2 2020 will be carried out in H1 2021.

From the 5,352 completed leak investigations, 1,588 leaks on external supply pipes were identified as qualifying. Irish Water has offered these customers with leaks on their external supply pipe a free leak repair under the scheme. The remaining 3,764 non-qualifying leaks are broken down as follows:

- 1) A total of 92 properties surveyed did not have an operational Internal Stop Valve (ISV) and the survey could not be progressed or required a further point of entry dig to establish the leak location. In many of these cases, the ISV was present but not operational. Customers are advised of the need to have a working ISV installed in order for the leak investigation to be completed.
- 2) In addition, a total of 151 properties have been identified through the First Fix process where the property does not qualify or the survey could not progress as it is served through a shared or backyard service.
- 3) The investigations identified 1,661 internal plumbing and other issues, which come under the remit of the home owner. As with all internal repair and maintenance in a customer's home, if a leak is confirmed internal to the house then it should be repaired by the homeowner.



4) The remaining 1,860 properties were identified as having leaks either on the public side, inaccessible leaks or otherwise out of the scope of the First Fix for Free Scheme.

Leak Repairs

Customers are asked to review the terms and conditions of the leak repair offer and sign the offer documentation after which Irish Water will contact the customer to schedule the leak repair at a suitable time. On receipt of the documentation, Irish Water contacts customers within 10 working days to arrange a convenient time for an appointment to carry out the free leak repair at a property.

During H2 2020 Irish Water completed 1,453 free leak repairs under the First Fix Leak Repair scheme. This figure includes some leaks that were detected in H1 2020 and repaired in H2 2020; similarly, some leaks detected in H2 2020 will be repaired in H1 2021.

Customer Repairs

From the data collected through meter reading we know that 488 customers have repaired leaks on their property themselves after receiving a constant flow advice letter. Irish Water would like to thank all customers who repaired leaks on their property. These repairs have made a significant contribution to national water conservation.

Gross Water Savings

All references below to water savings are gross. The issuance of constant flow advice letters has targeted the largest leaks first and the result of this can be seen from the estimated incremental savings of 5.34 million litres of water per day achieved in H2 2020 from contractor repairs and a further 1.34 million litres from customer repairs.

Table 2 estimates water savings from the First Fix Scheme and Customer Repairs since 2018. Previous reports estimated the savings from Q1 2018 to Q2 2020 on a quarterly basis. To facilitate comparison with H2 2020, table 2 now shows half-yearly estimate water savings since 2018¹⁰.

¹⁰ Please see table 2 in the Q2 2020 report (here) for estimated water savings since 2018 reported on a quarterly basis



2018	Irish Water F	irst Fix Repair	Customer Repairs		2018 Annual Cumulative	
Six monthly period	Repairs #	Savings (ML/Day)	Repairs #	Savings (ML/Day)	Total Repairs	Total Savings (ML/Day)
H1	1653	8.01	1,986	5.27	3,639	13.28
H2	2,512	8.25	1151	1.58	3,663	9.83
2019					2019 Annual Cumulative	
H1	2,819	7.67	1252	3.83	4,071	11.5
H2	1392	3.3	301	1.41	1,693	4.71
2020					2020 Annual Cumulative	
H1	952	2.01	159	0.7	1,111	2.71
H2	1453	5.34	488	1.34	1,941	6.68

Table 2: Estimated water savings from the First Fix Scheme and Customer Repairs for H1 & H2 2018, H1 & H2 2019 and H1 & H2 2020.

By the end of 2020, total cumulative water savings are estimated at 164.3 ML per day. A cumulative estimated total of 88.04 million litres per day has been saved through First Fix repairs and a further estimated 76.26 million litres per day saved from customer repairs. Savings are calculated from a comparison of meter data collected prior to and after the repair work being undertaken. For customer repairs, the constant flow alert is no longer active, and the meter data shows a supporting drop in water usage over the next two read periods. Finally, we exclude those with less than 1000l/d as it is suspected that below this level usage has been reduced rather than an actual customer leak repair.

8. Project Expenditure

The project expenditure is reported quarterly in arrears. Table 3 sets out the total project expenditure for 2020.

	Investigations		Repairs	Α	dvertising		Total
Q1	€ 883,591.60	€ 3	79,902.47	€	2,052.00	€ 1	1,265,546.07
Q2	€ 543,885.94	€ 3	54,560.17	€	11,665.46	€	910,111.57
Q3	€ 1,343,471.83	€ 1,0	34,471.26	€	7,224.07	€ 2	2,385,167.16
Q4	€ 79,357.18	€ 1,0	87,054.33	€	8,637.55	€ :	1,175,049.06

Table 3: Total expenditure on the First Fix Leak Repair Scheme in 2020.



The cumulative total expenditure from commencement of the project in 2015, up to the end of 2020 (end of December 2020) is €50,662,981. This consists of €25,720,604 for leak investigations, €20,612,803 for repairs and €4,329,574 for additional costs. Note, some costs incurred in a quarter may not be captured until the following quarter's figures.

9. Next Steps

Irish Water will continue to implement the First Fix Leak Repair scheme through the LRP. The next report will issue in Q1 2022 and will cover the first half of 2021 (H1 2021).



Table 4: Project Summary

	Number of		H2 2020		
1	Continuous Flow Alarms Detected	Total	82,189		
			Period	H2 2020	Cumulative FF Scheme Total
		Region	HZ 2020	Cumulative FF Scheme Total	
		North	231		
		North West	592		
	Nla	South East	1,047		
2	Number of Customer Notifications Issued	South West	877		
	Notifications issued	Dublin	1,215	188,720	
		North East	918		
		Midlands	853		
		Midwest	1,165		
		Grand Total	6,898		
	6,898 constant flow ad	vice letters were	issued in H2 2020.		
		Period	H2 2020	Cumulative FF Scheme Total	
		Region		Cumulative 11 Scheme Total	
	Customer Responses	North	443		
		North West	856		
		South East	517		
3	requesting a Free	South West	1,461		
	Leak Investigation	Dublin	904	101,586	
		North East	652		
		Midlands	387		
		Midwest	1019		
		Grand Total	6,239		
	6,239 customers reque	ested a First Fix Fr	ee Leak Investigation		
		Period	H2 2020	Cumulative FF Scheme Total	
		Region		Cumulative 11 Scheme Total	
		North	455		
		North West	640		
		South East	287		
4	Leak Investigations Completed	South West	1,162		
	Completed	Dublin	707	95,585	
		North East	508		
		Midlands	425		
		Midwest	1,168		
		Grand Total	5,352		
	5,352 Leak Investigatio	ns were carried o	ut in H2 by LRP contractors.		



		Period	H2 2020			
		Region		Cumulative FF Scheme Total		
	4a Leak Repairs Created	North	151			
		North West	324			
		South East	117			
4a		South West	335			
		Dublin	284	24,041		
		North East	117			
		Midlands	192			
		Midwest	166			
		Grand Total	1,686			
	1,686 Leak Repairs wer	e created in H2 20)20	·		
		Period	H2 2020	Communications FF Cohemes Total		
		Region		Cumulative FF Scheme Total		
		North	111			
		North West	273			
		South East	143			
5	Leak Repairs Completed	South West	358			
	Completed	Dublin	149	19,599		
		North East	54			
		Midlands	177			
		Midwest	188			
		Grand Total	1,453			
	1,453 confirmed Leak R	epairs carried ou	t in H2			
		Period	H2 2020	Cumulative FF Scheme Total		
		Region		Camalative 11 Selfeme Total		
		North	315,453			
		North West	649,325			
	Estimated Water	South East	566,540			
6	Savings from First Fix Repairs (Litres/day)	South West	1,275,006			
		Dublin	1,080,324	88.04 ML		
		North East	608,890			
		Midlands	462,462			
		Midwest	382,536			
		Grand Total	5,340,536			
	It is estimated that 5.34 ML per day of water was saved in H2 as a result of repairs carried out by the contractor. This brings the total incremental Water Savings to 88.04 ML from contractor repairs and an overall saving of 164.3 ML per day.					



		Period	H2 2020	Cumulativa EE Sahama Tata
		Region		Cumulative FF Scheme Tota
		North	64	
		North West	135	
		South East	0	
7	Completed	South West	0	
	Completed	Dublin	46	43,968
		North East	59	
		Midlands	5	
		Midwest	179	
		Grand Total	488	
	Customer repairs repre from Irish Water. 488 (customers repaire	d leaks in H2.	fter receiving a First Fix Free lette
		Period	H2 2020	Cumulative FF Scheme Tot
		Region		
		North	181742.8	
		North West	388261.57	
Estimated Savings 8 from Customer Repairs (Litres/day)	_	South East	0.00	
		South West	0.00	
	Dublin	205452	76.26	
		North East	222575	
		Midlands 11046.92		
		Midwest	326714.43	
	It is estimated that 1.3	Grand Total	1335792.72	ult of Repairs carried out by the
		Grand Total 4 ML of water per the total cumulative	day was saved in H2 as a res	ult of Repairs carried out by the from customer repairs and an Cumulative FF Scheme Tot
	customer. This brings t	Grand Total 4 ML of water per he total cumulation ML per day. Period	day was saved in H2 as a res ve Water Savings to 76.26 ML	from customer repairs and an
	customer. This brings t	Grand Total 4 ML of water per the total cumulation ML per day. Period Region	day was saved in H2 as a res ve Water Savings to 76.26 ML H2 2020	from customer repairs and an
	customer. This brings t	Grand Total 4 ML of water per he total cumulativ ML per day. Period Region North	day was saved in H2 as a res ve Water Savings to 76.26 ML H2 2020	from customer repairs and an
9	customer. This brings t overall saving of 164.3	Grand Total 4 ML of water per he total cumulative ML per day. Period Region North North West	day was saved in H2 as a res ve Water Savings to 76.26 ML H2 2020 37 15	from customer repairs and an
9	customer. This brings to overall saving of 164.3 Known Properties	Grand Total 4 ML of water per the total cumulative ML per day. Period Region North North West South East	day was saved in H2 as a res ve Water Savings to 76.26 ML H2 2020 37 15	from customer repairs and an
•	customer. This brings to overall saving of 164.3 Known Properties Without an	Grand Total 4 ML of water per he total cumulativ ML per day. Period Region North North West South East South West	day was saved in H2 as a res ve Water Savings to 76.26 ML H2 2020 37 15 1	Cumulative FF Scheme Total
9	customer. This brings to overall saving of 164.3 Known Properties Without an	Grand Total 4 ML of water per the total cumulative ML per day. Period Region North North West South East South West Dublin	day was saved in H2 as a resize Water Savings to 76.26 ML H2 2020 37 15 1 0 13	Cumulative FF Scheme Total
9	customer. This brings to overall saving of 164.3 Known Properties Without an	Grand Total 4 ML of water per he total cumulative ML per day. Period Region North North West South East South West Dublin North East	day was saved in H2 as a reserve Water Savings to 76.26 ML H2 2020 37 15 1 0 13 6	Cumulative FF Scheme Total



	Number of Non-		H2 2020	Cumulative FF Scheme Total			
10	Qualifying Properties Served Through a Shared or Backyard Pipe	Total	151	2,002			
	151 properties were ide supply or backyard sup	•	alifying for the scheme as they a	re served through a shared			
	Counties in Each Region	North	Donegal, Cavan, Monaghan, Leitrim				
		North West	Galway, Galway City, Mayo, Sligo, Roscommon				
		South East	Carlow, Waterford, Waterford City, Kilkenny, Wexford				
11		South West	Cork, Cork City, Kerry				
11		Dublin	Dublin City, South Dublin, Dun Laoghaire Rathdown, Fingal				
		North East	Longford, Louth, Meath, Westmeath				
		Midlands	Kildare, Offaly, Laois, Wicklow				
		Midwest	Limerick, Clare, Tipperary				

Note: All cumulative totals outlined in table 4 are for the First Fix Scheme from commencement to the end of H2 2020.

Note: Meter read data is used to confirm that a customer repair has been carried out. Number of customer repairs and estimated savings will be included in the report once two confirmed meter readings are collected after the repair date. As such, the number of customer repairs noted above for each quarter is expected to increase in the next report as more confirmed readings are collected.