#### CONFERENCE 2022



30th NOVEMBER 2022 | CEFN LEA CONFERENCE CENTRE, DOLFOR, NEWTOWN SY16 4AJ

#### AGENDA Scroll down to view all the slides or Click on the links below

09:30	Refreshments on arrival
10:00	<b>Welcome / Housekeeping / Aims for the day</b> Sharon Evans, Director of Quality Policy and Compliance, Dŵr Cymru Welsh Water and Chair, Water Health Partnership Conference morning session
10:15	<b>Opening Address</b> Huw Brunt, Chief Environmental Public Health Officer, Welsh Government
10:30	<ul> <li>Private Water Supplies Update</li> <li>Private Water Supplies and Wider Water Supplies in Wales - Click here Marcus Rink, Chief Inspector, Drinking Water Inspectorate</li> <li>Update on the Private Water Supplies Task and Finish (PWS TaF) Group Diane Watkins, Chair of PWS TaF Group</li> </ul>
11:20	Drought & Extreme Weather – 2022 experience — Drought Process (Welsh Government) - Click here — Impact on Environment (Natural Resources Wales) - Click here — Impact on Sufficiency and Quality (Dŵr Cymru Welsh Water & Hafren Dyfrdwy) - Click here
11:50	Panel Discussion on Morning Session
12:15 - 13:15	<b>Lunch</b> During lunchbreak delegates are encouraged to visit our information stands for further info and updates on Task and Finish Group activities.
13:15	Introduction to afternoon session Oliver Twydell, Water Regulations and Public Health Business Leader, Hafren Dyfrdwy and Chair, Water Health Partnership Conference afternoon session
13:20	Ensuring Water Supplies to Temporary Events (Workshop / Scenario / Learning)
14:45	Break
15:00	An introduction to PFAS — Overview - What we know and what we don't know (Public Health Wales) - Click here — Risk Assessments and Monitoring Outcomes (Dŵr Cymru Welsh Water & Hafren Dyfrdwy) - Click here
15:45	Closing Remarks Sharon Evans, Director of Quality Policy and Compliance, Dŵr Cymru Welsh Water
16:00	Event Close
	Slido - Responses to questions that we did not have time to answer on the day - Click here







# Water Health Partnership Conference 2022

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Back To Agenda





# Welcome

Sharon Evans, Dŵr Cymru Welsh Water Chair of Water Health Partnership Steering Group

Chair of morning session





# Housekeeping

- No fire alarm tests evacuation arrangements
- Facilities
- Mobile Phones
- Timekeeping





### **Mission Statement of the WHP:**

Protecting and enhancing public health by working together to deliver consistent understanding and management of water quality issues and to supply safe & resilient water services.





Facilitate improved communication and data sharing between public health practitioners

Delivering against the objectives of the Wellbeing of Future Generations Act 2015

Provision of consistent communication and messaging on public health issues within scope

Initiate events, training, CPD and raise awareness of health issues related to public and private water services and associated topics of interest

Undertake specific supporting activities through the work of multi-agency working groups







101	
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	Sharon Evans, Director of Quality Policy and Compliance, Dŵr Cymru Welsh Water and Chair, Water Health
	Partnership Conference morning session
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	<ul> <li>Private Water Supplies and Wider Water Supplies in Wales</li> </ul>
	Marcus Rink, Chief Inspector, Drinking Water Inspectorate
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	Diane Watkin, Chair of PWS TaF Group
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16:00	Event Close





## Rules for the day Interact

Engage



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Back To Agenda



# **Slido Questions**

### How to join the event

- 1. Open a browser on any laptop, tablet or smartphone
- 2. Go to slido.com
- 3. Enter the event code #WHP2022









# **Opening Address**

### **Dr Huw Brunt**

## Chief Environmental Health Public Health Officer Welsh Government





## Private Water Supplies Update

- Private Water Supplies and Wider Water Supplies in Wales
   Marcus Rink, Chief Inspector, Drinking Water Inspectorate
- Update on the Private Water Supplies Task and Finish (PWS TaF) Group
   Diane Watkin, Chair of the PWS TaF Group

## Drinking Water Wales 2021

November 2022

Marcus Rink Chief Inspector of Drinking Water



Back To Agenda

### Compliance Failures Wales 2021





### Service Reservoirs and Tanks





### **Discolouration Contacts and Events**



Back To Agenda

### **Private Water Supplies**





### **Private Water Supplies**





Percentage of tests failing to meet the standards for wholesomeness and the



### **Private Water Supplies Overview**





### Private Water Supplies Lead & Nickel



### Private Water Supplies & RAs

#### How to reduce the risk of contamination and protect public health

Risk assessment to identify risks and manage them to an acceptable level.





### Long Term Planning / Strategy

- Targeting PWS for public health:
  - Risk Assessments
  - Regulatory Intervention
- High priority contaminants:
  - Getting the Basics Right Faecal Contamination
  - PFAS
  - Pesticides
  - Lead and Nickel
- Climate change
  - Drought
  - Flooding





## Update on the Private Water Supplies Task and Finish (PWS TaF) Group

## Diane Watkin

Environmental Health Officer – Powys County Council Chair of the PWS TaF Group









# **Private Water Supplies TAF**

Representatives from the 22 Local Authorities, DWI, PHW, BGS, Welsh Government

Back To Agenda



### Aims and Objectives 2022-2023



Training Programme Fees & Charges Review



### Aims and Objectives 2022-2023







## Drought & Extreme Weather 2022 Experience

- Drought Process (Welsh Government)
- Impact on the Environment (Natural Resources Wales)
- Impact on Quality & Sufficiency (Water Companies DCWW & HD)



## **Drought Process**

### **Eifiona Williams** Head of Water Branch Welsh Government



## Llywodraeth Cymru Welsh Government





Llywodraeth Cymru Welsh Government

## Drought Defined as a prolonged period of dry weather and below average rainfall





#### **Roles and Responsibilities**

Llywodraeth Cymru Welsh Government

Water companies: Reduce PCC, reduce leaks, produce and update Water Resource Management Plans, issue TUBs

**NRW:** Issue status of catchments and monitor environment, land management, agriculture, and water supplies

Local authorities: Help monitor private water supplies in their area

**Individuals:** Follow TUBs, use water wisely, report leaks, ensure private water supplies are sufficient

Businesses: Use water wisely, report leaks



## Reflections/lessons/next steps –

### **Governance, Data & Information:**

- Welsh Government Create overarching plan to see how we can, do, and will work together
- Create a battle rhythm for DLG

### **Policy & Guidance:**

- View previous methods/projects to see what insight we can gain
- Share lessons learnt, future aims, and improvements

### **Comms & Engagement:**

- Keep DLG communication all year round
- Stakeholders share early warning signs so we are proactive, not reactive
- Improve messaging to the public and publish earlier



Llywodraeth Cymru





### Reflections/lessons/next steps – General Drought Management:

Llywodraeth Cymru Welsh Government

 Find methods to relieve pressure off of waterways and sewage systems

### **Extreme Heat:**

- Check systems are in order to prevent spills and leaks
- Promote methods to prevent public suffering





### **Information and Comms:**

Llywodraeth Cymru Welsh Government

**DCWW – Dealing with water leaks** 

Draft Water Resources Management Plan 2024

Water resources

HD – <u>Water resource management plan</u>

CCW – <u>2022-23 Strategy</u> | <u>2022-23 Strategaeth</u>





### **Drought experience 2022**

#### Focus on the Environment & Land

#### Helen Tidridge – Senior Planner, Water Resources, NRW







### NRW's role in water resources

Natural Resources Wales is responsible for the sustainable management of natural resources of Wales now and in the future

Environment (Wales) Act 2016

We have a duty to conserve, augment redistribute and secure the proper use of water resources to meet the needs of people, agriculture, commerce, industry and the water environment



Water Resources Act 1991




### NRW's role during a drought

- During droughts we monitor, report and act to reduce the impacts on the environment as well as others. We take specific actions to manage droughts, where low river flows and lake levels have potential to cause damage to our natural resources and ecosystems.
- We also manage Visitor Centres, National Nature Reserves, Land and Forestry across Wales and during more severe drought conditions may have to manage habitats differently to protect some more vulnerable species.
- We monitor water company actions to confirm they are following their drought plans, determine drought permit applications and provide advice to Welsh Government on drought order applications.
- We communicate with the Welsh Government, Water Companies and other stakeholders / media in relation to issues arising across Wales relating to prolonged dry weather and drought.





### Rainfall – March to October



### Natural Resources Wales / Dry weather updates

Rank	Month	Year	genreg::wales
1	October	1995	570.6
2	October	1887	576.1
3	October	1915	602.2
4	October	1893	605
5	October	1854	605.7
6	October	1990	614.4
6	October	2022	614.4
8	October	1844	625.3
9	October	1864	626.6
10	October	1937	627.4



### Drought status (July – present)

- 20<sup>th</sup> July Whole of Wales entered 'prolonged dry weather' status
- 18<sup>th</sup> August –South West Wales declared as being in 'drought'
- 25<sup>th</sup> September Rest of South Wales and Upper Severn entered 'drought'
- 8<sup>th</sup> September Whole of Wales declared at drought status
- 27<sup>th</sup> October South West Wales entered recovery from drought
- 10<sup>th</sup> November Whole of Wales in recovery from drought

   with exception of Upper Severn that remains in drought \*subject to change





All of Wales in drought status







### **Environment / Land impacts**





More than 600 fish were moved from the Ewenny









### Summary of actions (env/land)

Natural Resources Wales releases extra water to reduce risk of fish mortality



1 🖸 🌖



### Cyfoeth Naturiol Cymru / Natural Resources Wales

**b**Last weekend was a busy and testing time for our teams in south east Wales as they helped support the South Wales Fire and Rescue Service tackle five separate wildfires that broke out across the Welsh Government Woodland Estate.

Qur land management team provided fire officers with advice on how to best access the woodlands so they could tackle the fires and brought in specialised contractors with an array of skills and machinery to help create fire breaks and contain t... See more



#### Fish rescued after river levels drop

Meanwhile, hundreds of fish were rescued after river levels dropped significantly in a stretch of the Ewenny near Pencoed.

A sinkhole has been blamed, which left 600 fish trapped in isolated pools of water with no means of escape.

With so many fish packed into such a small area, Natural Resources Wales (NRW) said they were in danger of running out of oxygen.







### Drought & Extreme Weather – 2022 Experience: Impact on Sufficiency & Quality

## **Richard Amos** Water Resources Regulation Manager, DCWW

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### Pontsticill reservoir

### **Drought Experience 2022**

### Aled Isaf reservoir







### **Weather and Water Resources**

- Around 50% LTA rainfall March –August (3<sup>rd</sup> driest in a 150 yr record)
- 38% LTA in August







### **Temperature and Water Demand**

- New record-high temperature for Wales of 37.1C at Hawarden in July
- Significant peaks in demand





### **Actions taken**

- Statutory requirement to prepare and maintain a Drought Plan
- Maximised available water resource
- Temporary enhancement to key pumping station
- Enhanced customer communications
- Targeted leakage detection
- Tankering supplies to meet peak demands
- **Temporary Use Ban**

### **Drought Actions**

#### Dŵr Cymru Water Industry Act 1991 Dŵr Cymru Cyfyngedig TEMPORARY BAN ON WATER USE Dŵr Cymru Cyfyngedig gives notice that, pursuant to sections 76 and 76A-C of the Water Industry Act 1991, the following uses of water supplied by Dŵr Cymru Cyfyngedig ore restricted. notice and further details concerning the prohibitions, ncy advice may be found on the website of Dŵr Cymru Cyfyngedig here: dwrcymru.com/drought ions will start on 08.00am on 19th August 2022 and ion. The restriction applies to our Pembrok rory Bons) Order 2010, which is The use of a hosepipe, including using vailable at http://www.legislation.govuk uksi/2010/2231/contents/mode d similar devices, is prohibited for Statutary Exception Paddiag pages at early stoges of a drough Pools that are subject to significan repair and renovation; · Pools with religious significance ose on our Priority Services Registr are port of a National Plant Callection Cleaning walls or windows of dor ises using a hosepipe Watering newly laid turf for the first 28 days The watering of newly bought plants for the ased by a roof and walls: Cleaning paths or patios using a hose g or maintaining a pool that is ing other ortificial out faces using a hosepipe the course of a programme of medica Cleaning a private motor-vehicle using ific approved apparatus, such as his specification pressure washers nals from infections or diseas a water efficient apparatus Filling or maintaining a pool used in th ories, e.g. hand car washing, win ng, graffiti removal). Cleaning a private leisure boat using b hosepipe Those using y eing reared or kept in captivity, and na increased fuel consumption by the n keen the fish healthy n the company's Vulnerable Customers List who have mobility issues but are not in possession of a Blue Badge. the entire ground Filling or maintaining a domestic swimming nary Universal Exception

who meet the criterio below ry Universal Exception car

ling pool Pools fitted with approved wate





### **Raw Water Quality**

- Increased incidence of algal blooms in lowland rivers and reservoirs due to extended sunshine hours and high temperatures – e.g. Cwmtillery Reservoir. Raw water became untreatable.
- Elevated manganese concentration from upland reservoirs e.g. Ystradfellte Reservoir (below).



- Taste and Odour issues (presence of Geosmin and Methyl Iso-borneol):
  - Preseli WTW use of Llys-y-fran pump-back to blend supplies
  - Talybont WTW use of PAC dosing as well as GAC for treatment
- Currently experiencing water quality and treatment challenges resulting from rapid reservoir refill



### Impact on perceptions of Welsh Water

Welsh Water customers

- Feel much more positively towards them
- Feel a bit more positively towards them
- No difference / no opinion
- Feel a bit more negatively towards them
- Feel much more negatively towards them



### **Customer Feedback**

- Done 'for the right reasons' seen as necessary and something that should be taken seriously
- A sense that limiting hosepipe usage is a small ask – even for those who regularly use a hosepipe
- Plus, rationalised as worth doing to protect supply for the things that matter more e.g. drinking water, washing etc.
- ! But for many just seen as 'doing what needs to be done', thus not impacting perceptions either way



### Drought & Extreme Weather – 2022 Experience: Impact on Sufficiency & Quality

Dr David Sutherland Senior Hydrologist, Hafren Dyfrdwy Craig Williams Water Treatment Business Lead, Hafren Dyfrdwy

> RHAGOROL O'R TAP WONDERFUL ON TAP







- Drought Triggers
- Dee Storage System
- Raw Water Storage & Demand
- Learning
- Questions





# Dee Storage System

- For the majority of the dry period our status was normal
- Briefly entered developing drought status
- Impact on abstractions of entering drought status would have been a 0.4 MI/d net reduction.





- Stored water decreased until end of September when recovery began
- Demand peaked in July & August during hot temperatures
- Reservoir storage plateaued then increased due to increased precipitation and HD demand management





- HD Drought Action Team convened for the first time since HD formed in 2018
- Water into Supply data improved
- Optimised reservoir abstraction & blends to conserve usable storage
- Where possible managed pumping in pressure so that treatment met demand without treating excess volumes





# Q&A session and Panel discussion

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# Lunch

# Please take the opportunity to visit the stands and poster displays

# Return to this room ready for afternoon session at **13:15** please





# Welcome Back

Oliver Twydell, Hafren Dyfrdwy

Member of Water Health Partnership Steering Group

Chair of afternoon session





# Workshop session

### Ensuring potable water supplies to temporary events

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- Ensuring potable water supplies to temporary events Why now?
- Festivals / Community events up and running again
- > A couple of 'near misses' in 2022
- > WHP Temporary Event Guidance Still fit for purpose?

Review together and discuss any opportunities for improvement





### Ensuring potable water supplies to temporary events

- Scenario based workshop (in smaller groups)
- Will introduce some challenges experienced in 2022 to work through
- > Offer chance to discuss current written guidance
- Come back together and share feedback





# Workshop session

Tables 1 & 2 – Stay in this room (Facilitator – Sion Lingard)
Tables 3 & 4 – Move to Cader Room 1 (Facilitator – Sam Naylor)
Tables 5 & 6 – Move to Cader Room 2 (Facilitator – Diane Watkin)
Tables 7 & 8 – Move to Cambrian room (Facilitator – Kate Willis)

Please be back in this main room for 14:20 for feedback session





# Feedback on workshop session

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Ensuring potable water supplies to temporary events Points to discuss

- > Key Communications?
- Response to Challenge 1?
- Response to Challenge 2?
- Key issues to take forward?



# Introduction to PFAS

Paul Callow – Environmental Public Health Scientist UKHSA PFAS and Human Health

Matthew Jones – Public Health Manager DCWW Current picture in Wales – Risk Assessment & Monitoring Outcomes



## What is **PFAS**?

Per and polyfluoroalkyl substances (PFAS) are a group of around 5,000 man-made 'forever' chemicals that are used to make coatings and products that resist heat, oil, stains, grease, and water.

PFAS chemicals do not occur naturally in nature, and are therefore very long lived and are proving to be a ubiquitous pollutant present at very low levels in the environment, in soil, groundwater or surface water and food.

Over the last few years these chemicals have gathered more media attention in both the UK and worldwide press.

UK 'flying blind' on levels of toxic chemicals in tap water

Concern over toxic chemicals in tap water

Are British Regulations for PFAS in Water Too Lenient?

Government is not testing drinking water for PFAS, which studies have linked to numerous health issues

Pollution: 'Forever chemicals' in rainwater exceed safe levels

Lyon, Veneto and Antwerp plagued by dangerous forever chemicals, as call for an EU ban gains steam



### PFAS and human health



Paul Callow Environmental Public Health Scientist

### Perfluoroalkyl and Polyfluoroalkyl substances (PFAS)

- There is concern over some of these substances because they are persistent in the environment, accumulate in the body over time and may be toxic at low levels of exposure.
- PFOS and PFOA, are classified as Toxic, accumulate in living organisms and pose a risk to human health and the environment. Similar PFAS may have similar properties. For example, a third PFAS, PFHxS (perfluorohexane sulfonate) will also be restricted/controlled in the EU.

### Diverse exposure



Sunderland et al., 2019, JESEE

### Adverse health effects of PFAS

Laboratory animals

Human epidemiological data

- Effects on the liver
- Immune system
- Neurodevelopmental
- Reproduction and development

- Immune system
- Increased cholesterol
- Increased levels of a liver enzyme
- Limited evidence for association with cancer

### Different approaches to health based values

Available values

### Uncertainties

- Health based values are available for a few PFAS (e.g. PFOS, PFOA, PFHxS, PFNA)
- A few specifically for drinking water (i.e. water concentrations)
- Few in terms of intake from food (e.g. European Food Authority)

- Different numerical values have been derived
- Various approaches and uncertainties in derivation (e.g. selection of most sensitive endpoint; use of animal or human data; modelling/extrapolation to human exposure; and uncertainty factors applied

### Uncertainties over health risk assessment of PFAS

- Lack of toxicological data for many (most) PFAS
- Animal toxicology studies are difficult to interpret in terms of human exposure
- PFAS behave differently in animals compared with humans
- Shorter chain PFAS behave differently in the body compared with longer chain PFAS

- Reported effects in human epidemiological studies are variable (not always consistent)
- Analytical difficulties (e.g. crosscontamination)



# Current PFAS picture in Wales – Risk Assessment & Monitoring Outcomes

Matthew Jones – Public Health Manager DCWW


## **Regulation and Guidance**

PFAS is not currently regulated within the United Kingdom but has been the subject of information letters and regulations elsewhere:

- Drinking Water Directive 98/83/EC (European Guidance) Not adopted in the UK. (Scotland currently working towards transposition)
- EU Directive reviews e.g. Urban Waste Water Directive released for comment end of October 2022.
- DWI Information Letter 05/2021 Requirement of PFAS monitoring and risk assessment.
- DWI Information Letter 03/2022 PFAS Guidance (Risk assessments and associated reports).

In response to information letters and guidance issued by DWI, water companies in Wales have developed PFAS strategies and action plans to ensure the guidance can be met. This is going to take investment, resource and collaboration with stakeholders throughout Wales.



### Water Health **PFAS in Raw Water in Wales** (combined DCWW & HD)

In 2021, we carried out risk assessments on all of our 119 raw water sources in Wales. This risk assessment process involved assessing the number of potential sources of PFAS e.g. active or historic landfills within the catchment.

Risk Rating	Number of Sites (%)
Low	102 (86%)
Medium	5 (4%)
High	12 (10%)

In Wales, we have taken samples from 78 of our raw water sources with over 2400 individual PFAS results. Of these results, 4 have been above the first trigger guidance value,  $0.01 \mu g/L$ .

Area	Results between 0.01µg/L and 0.1µg/L	Actions Taken	Repeat Results
South Wales	3 (2 sites)	Catchment risk assessment review - no new potential sources or additional risks identified. Repeat sampling taken at an increased frequency.	7 further samples taken - all below 0.01µg/L.
North Wales	1 (1 site)	Catchment risk assessment review - no new potential sources or additional risks identified. Repeat sampling taken at an increased frequency.	4 further samples taken - all below 0.01µg/L.



### PFAS in Final Water in Wales (combined DCWW & HD)

Across Wales, we have taken 56 final water samples for PFAS analysis from 42 WTWs. This has generated 1,024 individual PFAS results. Of these over 1000 results, there has been 1 results above the first trigger guidance values of 0.01µg/L in Wales (Tier 2 between 0.01µg/L and 0.1µg/L).

For this detection above the first trigger guidance value, actions were taken as per DWI guidance and water companies PFAS strategies:

Action/Information	Result
Catchment Investigation	Initial Catchment risk assessment carried out and no new risks or potential sources identified. Still classified as low risk based on catchment inputs.
Repeat Sampling	Resamples arranged and both raw and treated results were all below the limit of detection for the method.
Increased Routine Monitoring	Increased frequency of final and raw water monitoring.
DWI Liaison	Discussed the detection and actions with our DWI inspector and the risk assessment team.



# PFAS in Waste Water

Water companies in Wales are participating in the UK Water Industries Chemicals in the Environment Programme (CIP) which has done some monitoring of PFAS.

This monitoring has shown that PFAS compounds are ubiquitous in the environment including at our waste water treatment works (WwTW), transitional and coastal waters, crude sewage and final effluent.

Waste water treatment could cost of £21 billion and 210,000 tonnes of carbon per year for UK water companies (UKWIR). This significant cost of investment demonstrates that it is essential for government, industry and commercial organisations to have a robust discussion on controlling PFAS at source.

In Wales we will continue to partake in the CIP programme monitoring PFAS and work with regulators and stakeholders to better understand PFAS in waste.



# **PFAS Challenges**

- Analytical capacity within the UK.
- Analytical Method challenges:
- Developing a method comes with challenges such as contamination, uncertainty and cost.
- Interferences and LoD issues e.g., <0.02µg/l (above trigger action level)</li>
- List of PFAS has potential to keep increasing how does analytical science keep up?
- Understanding treatability unknowns.





- PFAS will continue to form part of water company risk assessments and we are taking the steps necessary to reduce potential exposure to PFAS from drinking water in Wales.
- Across Wales, our initial risk assessment and analytical data shows that PFAS is currently of low risk in our raw and drinking water.
- Both DCWW & HD have a drinking water strategy in place for PFAS and have action plans to address further guidance issued by DWI in information letter 03/2022.
- Water companies will continue to support Europe in advocating for enforcement and environmental regulation to prevent PFAS at source.
- There is still a lot of unknowns with PFAS.





## **Event Close**

Thank you for attending and your participation

We will be producing a summary of todays event including copies of presentation slides and a summary of questions / answers on slido questions not covered

Don't forget to pick up your CPD form

Please provide us with your feedback via the feedback forms on your tables to help us shape future events

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## **Closing Remarks**

Sharon Evans, Director of Quality Policy & Compliance Dwr Cymru Welsh Water

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#### Slido – Outstanding Questions

The Following are answers to questions that were posed through Slido and not answered on the day:

"Should families with under 10s be prioritised for private supply risk assessments?"

Local Authority perspective - Risk assessments are carried out by classification (Reg.9/Reg.11 are statutory) every 5 years, we tend to look at the larger (most consumers) and higher risk when prioritising RA reviews. We wouldn't necessarily know the age of consumers/whether there are some vulnerable groups before visiting. Also Reg.10 single domestic supplies are risk assessed by request only – if a request comes in, particularly if a problem was highlighted, this would usually be carried out quickly.

DWI perspective - Whilst prioritising RAs on age is not a regulatory requirement, DWI will always encourage a risk-based approach, as advocated by WHO. The RA of each supply should be informed on a case-by-case basis, and any vulnerability of PWS users (for example, the elderly, as well as the young, or any immunocompromised people, or indeed anyone from a transient population) should, in my view, be taken into account as part of risk assessment prioritisation. It is worth noting though that the demographic of many people on reg 9 supplies (and some reg 11 supplies) will almost certainly be variable, and include "unsuspecting" members of the public (e.g. visitors and guests) of all ages and resistance to infection. Even those people not normally immunosuppressant may succumb to infection when they are exposed to poor quality supplies for the first time – Whilst the risk may be less for regular users of such supplies due to an established immunity, this of course, is no reason not to deprioritise control measures being put in place to safeguard health, irrespective of age of users, or anything else. Regulation 20 notices must be served in such cases.

"PWS risk assessments. Should we [Local Authority] be sending DWI summary sheet for high risk sites before remedial work is undertaken?"

Summary sheet should be sent to DWI withing 28 days of the RA being carried out for Very High/High risk supplies. The timescales for remedial works should be specified (which would vary).

"How prepared are LAs for providing alternative supplies to PWS customers in a drought? Is there a TAF for this?"

The responsibility for ensuring the sufficiency of any private water supply falls to the relevant person(s); and there should be a contingency plan in place to deal with insufficiency whether from drought or other reason (e.g. damage/contamination).

The PWS TAF Group Guidance on Insufficiency was put together through the WHP and has details and action levels for LA's in periods of dry weather/drought and contains a flow chart and agreements with water companies on how to assist PWS. This may include involvement from local resilience forums is insufficiency is widespread.

LA's also have enforcement powers to require PWS/relevant persons to provide a sufficient supply, but no duty to provide and alternative supply.

There is no separate TAF group.

Additional note - Given the emerging issues associated with private water supplies, with climate change (drought and insufficiency) and health impacts (water quality), the Planning Policy Wales (PPW) (Planning policy Wales | GOV.WALES) includes a number of principles and requirements that PPW translates into the planning system e.g., Sustainable Management of Natural Resources, Climate Change, Health & Well Being, Placemaking in Rural Areas and Supporting Infrastructure, which cover and relate to water supplies and services.

There may be a potential for other LA's to have private water supplies included as a material planning consideration in their Local Development Plans (LDP).