

Non-target screening for emerging substances of concern

(UKWIR EQ/01/A/272 CIP4)

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CENTRE OF EXCELLENCE
in Mass Spectrometry



UNIVERSITY
of York

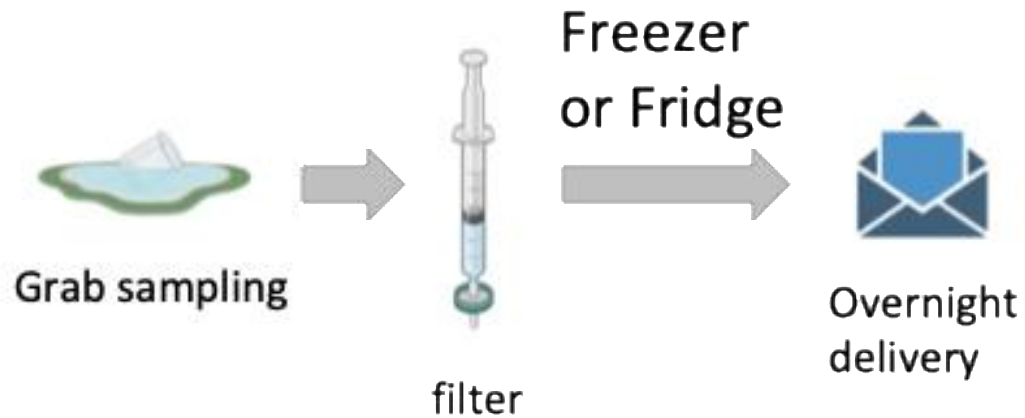
UKWIR EQ/01/A/272 CIP4 supporting information

1. This document explains what you can expect to receive in the post to facilitate water and final sludge sampling for the UKWIR non-targeted screening for emerging substances of concern project.
2. The following slides contain details of:
 - a) Sampling kit contents
 - b) [Links to training videos](#)** that show how to collect both water samples and final sludge samples
 - c) Information regarding low temperature sample storage
 - d) How to ship the samples back to the University for analysis
 - e) A sampling schedule and shipping schedule
 - f) A summary of the sampling sites for each water company and what samples are to be taken at each site
3. For any questions, please contact Dr Jackie Mosely at jackie.mosely@York.ac.uk, including **UKWIR CIP4** and the **[name of the water company](#)** in the email subject heading.

Sample Collection (in-field)

Influent & Effluent

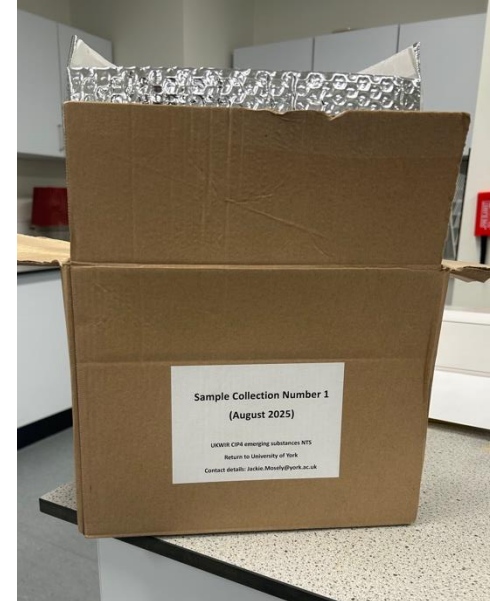
River water (upstream and down stream)
Groundwater (up borehole and 2x down borehole)



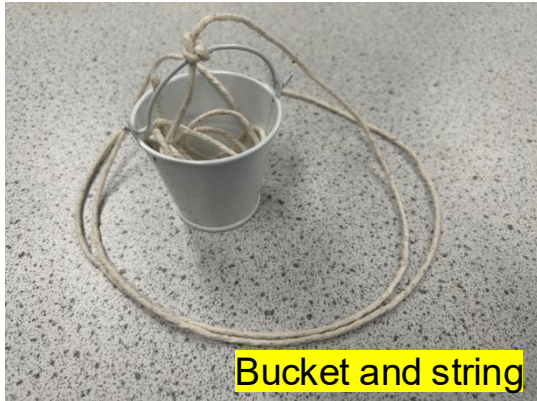
Final sludge cake



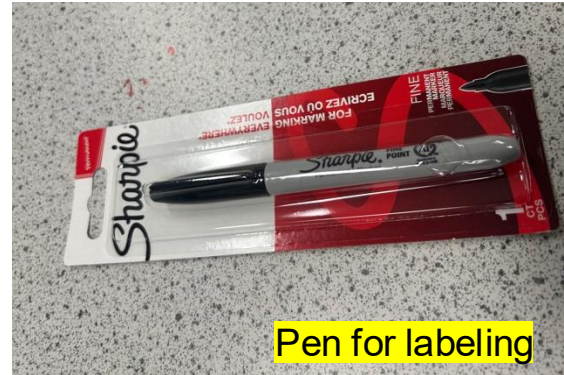
You will receive 1 big box containing 4 sampling kits



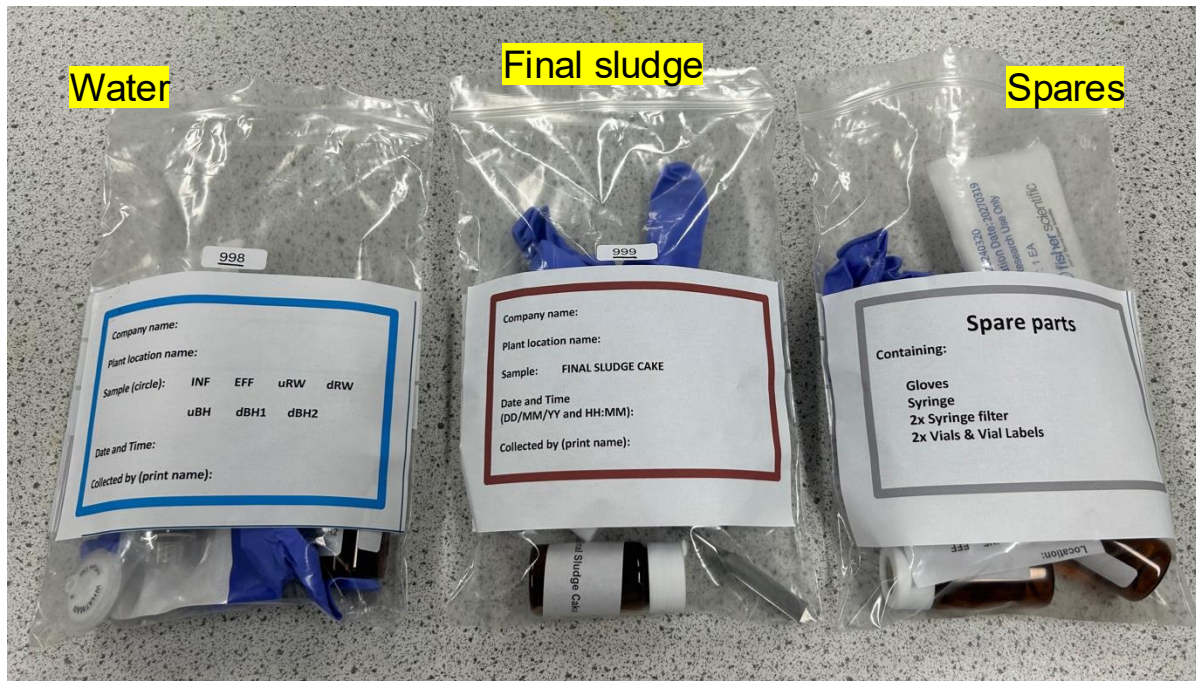
Each quarterly sampling kit includes:



Bucket and string



Pen for labeling



Water

Final sludge

Spares

Printed instructions
Click here to download a copy

CIP4: Sampling Protocol






This guide provides the actions you need to take on:

- Viewing the online training videos
- Receipt of sample materials (**Method 1**)
- Methods you'll use to collect liquid samples (**Method 2**)
- Methods you'll use to collect final sludge 'cake' (**Method 3**)
- Protocols for sending materials back to the University of York (**Method 4**)

You can view videos of these methods here:

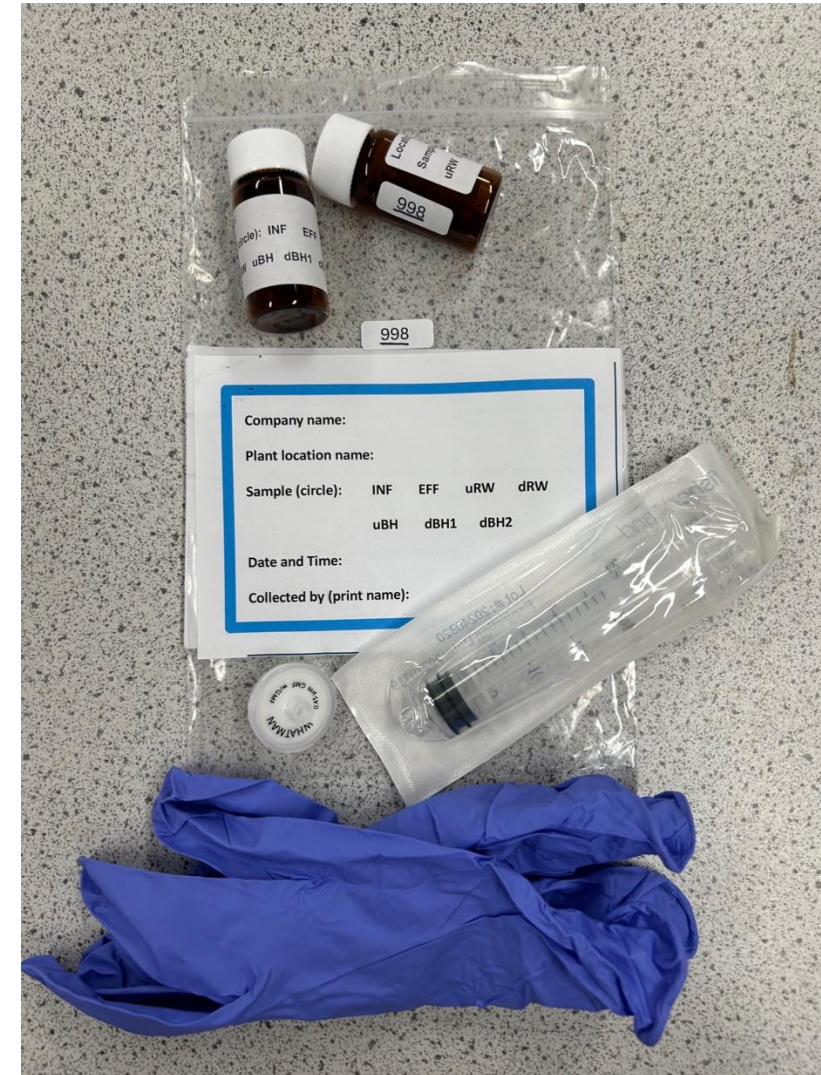
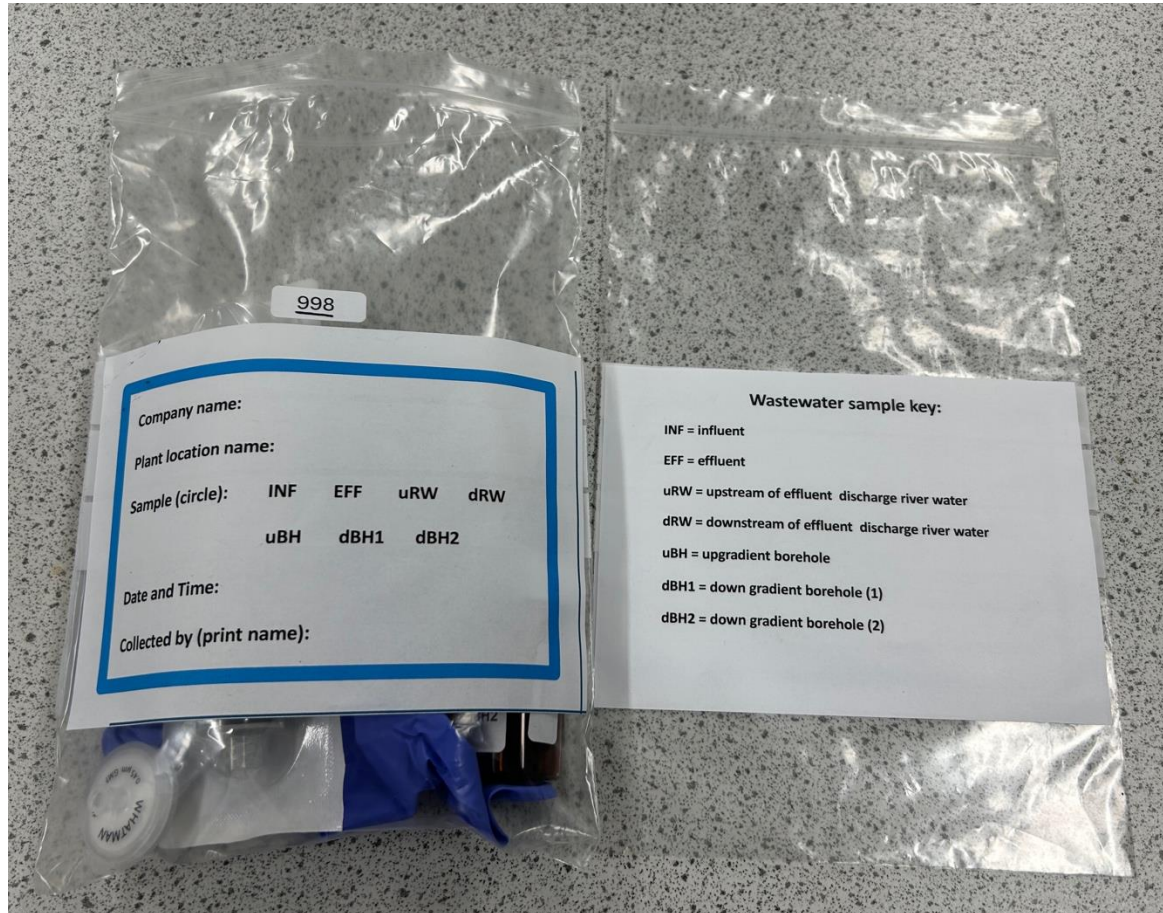
<https://webfiles.york.ac.uk/CoEMS/>

Equipment required:

1 per box				
Keep for future sampling	Sample bucket		Pen	
Per quarterly sampling box				
	1x Plastic bag for disposal of used parts	4x Plastic bags for low temperature storage	1x Dehydrated ice packs	1x Packaging for return shipment
Included in individual sampling kit				
	Gloves	Vials	Plastic syringe	Syringe filter
				
				Spatula

Please wear appropriate personal protective equipment while undertaking the sampling, at minimum: High Visibility Vest, Boots, Gloves, Eye Protection, or as otherwise specified by your employer.

Sample collection kits – water samples

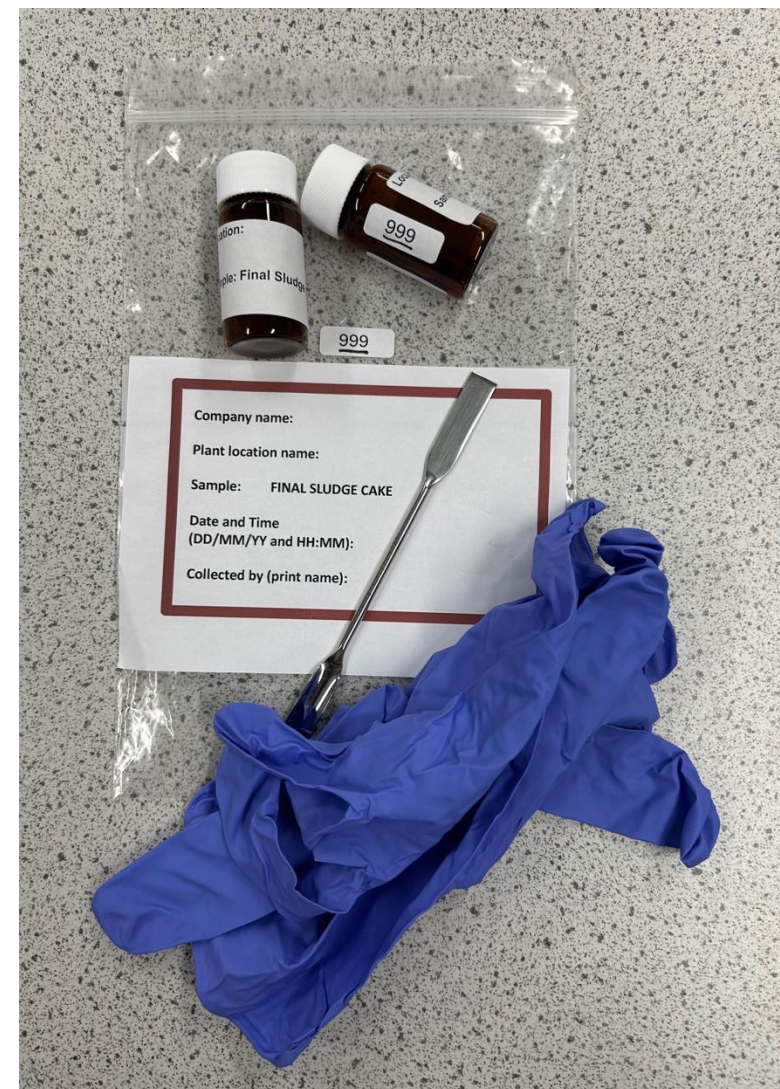


How to collect wastewater, groundwater & river water

Collecting Liquid Samples

[Click here to start viewing the video](#)

Sample collection kits – final sludge cake



How to collect final sludge cake biosolids

Sludge Sampling

[Click here to start viewing the video](#)

Sample collection kits - spares



Low temperature storage and shipping

Use this bag to collate water samples from each site and place in Freezer or Fridge at the end of each day's sampling

Low temperature storage bags

Company:

Location:

Date of storage:

Mode of storage (circle):

Fridge Freezer

Activate these freezer packs the day before shipping and include in shipping container with all samples collected that quarter

Freezer Packs

Instructions for use:

Day prior to shipping:

Submerge gel pack under water for 10 min
Place in freezer overnight

Day of shipping:

Remove gel pack from freezer and return to this bag for shipping

Sampling and shipping schedule :

1. Preparing to ship

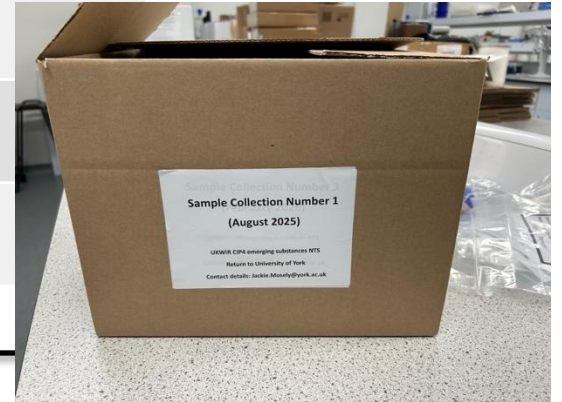


For shipping:

- Place the frozen gel packs inside the silver insulated bag and seal
- Use the cardboard packaging to fill any spare space in the box
- Return NEXT DAY REGISTERED DELIVERY to the University of York

Sampling periods	Last date for shipment to York (samples to be shipped on Mondays)
1 st to 22 nd August 2025	25 th August 2025
1 st to 21 st November 2025	24 th November 2025
2 nd to 28 th February 2026	2 nd March 2026
1 st to 29 th May 2026	1 st June 2026

2. Shipping



Return by next day registered delivery to:

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Sampling locations

INF = influent

EFF = effluent

uRW = upstream river water

dRW = downstream river water

uBH = upgradient borehole

dBH1 = down gradient borehole 1

dBH2 = down gradient borehole 2

Water company	Location	INF	EFF	uRW	dRW	uBH	dBH1	dBH2	Sludge
Anglian	Bedford	x	x	x	x				
	Lincoln Canwick	x	x	x	x				
	Cambridge								x
	Basildon								x
	Methwold					x	x	x	
Dwr Cymru	St Asaph	x	x	x	x				
	Llanberis	x	x	x	x				
	Five Fords								x
Northumbrian	East Tanfield	x	x	x	x				
	Great Ayton	x	x	x	x				
	Howdon								x
	Alwinton					x	x	x	
Severn Trent	Derby	x	x	x	x				
	Minworth	x	x	x	x				x
	Doveholes					x	x	x	
Southern	West Hoathly	x	x	x	x				
	Uckfield	x	x	x	x				
	Aylesford								x
	Morestead					x	x	x	
South West	Launceston	x	x	x	x				x
	Fluxton	x	x	x	x				
	Shirwell					x	x	x	
United Utilities	Rochdale	x	x	x	x				
	Winsford	x	x	x	x				
	Stockport								x
	Stanah					x	x	x	
Wessex	Saltford	x	x	x	x				
	Holdenhurst	x	x	x	x				
	Berry Hill								x
	Hindon					x	x	x	
Thames	Maple Lodge	x	x	x	x				
	Reading	x	x	x	x				
	Crawley								x
	Sonning Common					x	x	x	
Yorkshire	Adwick Le St	x	x	x	x				
	Knostrop								x
	Middleton-on-wolds					x	x	x	