

# Sampling aspects and how to ensure fit for purpose sampling scheme

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# Outline

1. Understanding the scheme requirements
2. Understanding the receiving Laboratory needs
3. Review the sites
4. Understanding the Sampling
5. Design a programme to meet these needs
6. Monitor and Review



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# Understanding the Key Points of the Study

## Meet the requirements

1. Identify most appropriate sample points
2. Provide robust data to inform what happens next
3. Take enough samples
4. Take them correctly
5. Minimise contamination risk



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# Understanding the scheme requirements

## An Overview of

### i. What is needed

- Sampling guidance
  - Determinands
  - Procedures
  - Sensitivity
  - Frequencies
  - Reporting

### i. Where it is needed

- Sites identified – 20 in Scotland
- Sampling locations



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# Understanding the Laboratory Capabilities

## i. What do you need to know

- Capability
- Capacity
- Specific requirements
  - stability
  - bottle types
  - storage/transportation/chain of custody
  - information
- Outsourcing



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# Understanding the Sites

## i. Full Review of the sites and their Implications

- Geographical spread
- Locate sample points



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# Understanding the Sites

1. Outfall
2. Egress Entry
3. Sign-in
4. Raw
5. Final Effluent

Route



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# Understanding the Sites

## i. Full Review of the sites and their Implications

- H&S
- Access
- Options to mitigate risk
- Control measures



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# Understanding the Sampling Needs

## i. What do you need to cover

- Recruitment
- Training
- Equipment/Resources



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# Understanding the Sampling Needs

## i. Ensuring sampling does not impact on results

- Procedures
  - Sampling
  - Equipment
  - Information
- Important to have
  - Correct kit
  - Correct Cleaning and storage
  - Blanks

Once you have done all of that



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# Scheduling the Sampling Scheme

## i. Designing and Scheduling a programme

Based on

- All the requirements set
- The receiving lab and any resources
- In consultation with the customer



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# Understanding the requirements

## i. Monitor and Review

- Compliance with programme
- Issues
- Results
- Review and amend (in consultation)



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# Conclusion

## How to ensure fit for purpose sampling scheme

- Fully Understand all the requirements prior to start up
- Fully understand the receiving Laboratory's capability, requirements and capacity
- Visit all sites prior to start up and review
- Put in place the correct resources and training/understanding
- Design and implement the programme
- Review, Review, Review
- Prepare



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Thank you

