	Wastewater Treatment	Reference: WwP/I/3033/25/24
	Site Specific Instruction (SSI)	Version: 01 Issue date: 11/10/2023 Expiry date: 11/10/2024
	EPR Residue Management Plan Leigh WwTW	
<i>SSI's are published in UU's QA System. If this document is printed please check it is the current version.</i>		

1. Purpose

- 1.1 This Site Specific Instruction describes the measures applied to minimise the generation of residues and optimise reuse, regeneration, recycling and/or recovery of energy ensuring the appropriate disposal of residues

2. Scope

- 2.1 This Site Specific Instruction is applicable to solid waste generated within the sludge treatment permitted area of the site


3. Responsibility

- 3.1 The Production Manager for the site is responsible for reviewing the Residue Management Plan so as to identify any changes to the residues generated and their fate including minimisation and moving up the waste hierarchy

4. Waste Hierarchy

- 4.1 United Utilities applies the waste hierarchy (below) to all residue generated during the course of their treatment operations




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5. Residue Plan

Table 1

Residue Type	Current Waste Route	Waste Production Minimised	Current Waste Hierarchy Position	Potential for improvement on the waste hierarchy position
Biosolids	Land application for benefit	Yes	Recycling	No improvement as avoidance of production is not applicable
Screenings	Landfill	Yes	Disposal	Difficulty handling and processing so as to recover / recycle
Grit (from asset cleans)	Land restoration / soil manufacture	Yes – all grit has to be removed from the process	Recycling	Current technology to wash and recycle not a viable option
OCU Media	Re-use (where possible)	Yes - monitoring undertaken to identify when a change is required	Re-use	No other suitable media available so as to avoid use
Siloxane spent activated carbon	Recycled	Yes - monitoring undertaken to identify when a change is required	Recycling	No other suitable media available so as to avoid use
Packaging waste e.g. IBC's / drums	Re-used when returned to the supplier	Yes	Re-use	Use of powdered poly where possible to avoid liquid packaging
Waste oil	Hazardous	Yes	Disposal	Segregation of waste from other streams
Centrate liquor	Treated Through LTP Amtreat process than returned to head of works	Yes	Disposal	No improvement as avoidance of production is not applicable

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Residue Type	Current Waste Route	Waste Production Minimised	Current Waste Hierarchy Position	Potential for improvement on the waste hierarchy position
Condensate from gas pipework	Returned to head of works and treated through UWW process	yes	Disposal	No other viable option
Leachate from cake pad	Returned to head of works and treated through UWW process	yes	Disposal	No improvement as avoidance of production is not applicable
OCU liquor returns	Returned to head of works and treated through UWW process	yes	disposal	No improvement as avoidance of production is not applicable

All residues generated and removed from site are logged on the Waste Disposal Requests portal. An annual summary of volumes is reviewed for reporting purposes and options for reduction are assessed by the Waste Disposal & Recycling Manager.

6. Waste Removal

All residue is removed from site using suitably competent waste contractors to permitted waste facilities under the control of the companies Waste Disposal & Recycling Manager (or in the case of Biosolids the Bioresource Recycling Manager). Regular audits of the contractors and destination sites are undertaken to ensure compliance.

7. References

[UU Waste Disposal Requests \(WDR\) SharePoint](#)