

# Augean decontaminated 8km of cast iron pipe from a nuclear research site, achieving a 99.1% recycling rate

## CLIENT: NUCLEAR WASTE SERVICES & MAGNOX LTD



A consignment of pipe sections being delivered

Project Name:	Metallic Waste Treatment of Magnox Harwell's Offsite Discharge Pipeline
Volume:	1680 tonnes over 137 consignments
Project Scope:	Transport, decontamination, metal recycling and secondary waste management

### Project Highlights

- + Successful collaborative working between Augean, Nuclear Waste Services, Magnox and TAM International
- + Flexibility in consignments to assist Magnox in their operations
- + Safe, compliant and efficient transport and decontamination methods
- + Diversion from disposal at the Low Level Waste Repository

*“ Under the NWS framework Augean provided a bespoke service to achieve a recycling rate of over 99% of metallic Offsite Discharge Pipework from the Harwell Site, through an approach already established in the oil and gas industry. By transferring the technology to the nuclear decommissioning sector, this reduced volumes of radioactive waste which would have otherwise been destined for landfill, and established new waste routes for similar future projects in the nuclear industry. ”*

Head of Waste, Magnox Ltd

### PROJECT OVERVIEW

In early 2023, Augean completed a successful metallic waste treatment project for Nuclear Waste Services and Magnox Ltd. Magnox had large volumes of pipework in interim storage on their Harwell site. The pipework, used for discharge of aqueous waste, had been excavated as part of the nuclear research site's decommissioning. Magnox required a collaborative and flexible approach that was cost-effective and maximised the recovery of recyclable metal.

From 2021 to 2023, a total of 1601 pipe sections were transported from Oxfordshire to Augean's treatment site using a bespoke solution developed in collaboration with TAM International to meet Magnox's requirements.

These pipe sections were decontaminated to Out of Scope levels by Augean's experienced operational team, using Ultra-High Pressure jet washing, and the cast iron was recycled. All secondary waste was disposed in line with the Waste Hierarchy and Best Available Techniques.

A recycling rate of 99.1% was achieved and Augean delivered the project safely and compliantly.



Pipe sections being offloaded at Augean



Final consignment on arrival at Augean's Waste Recovery Park



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