

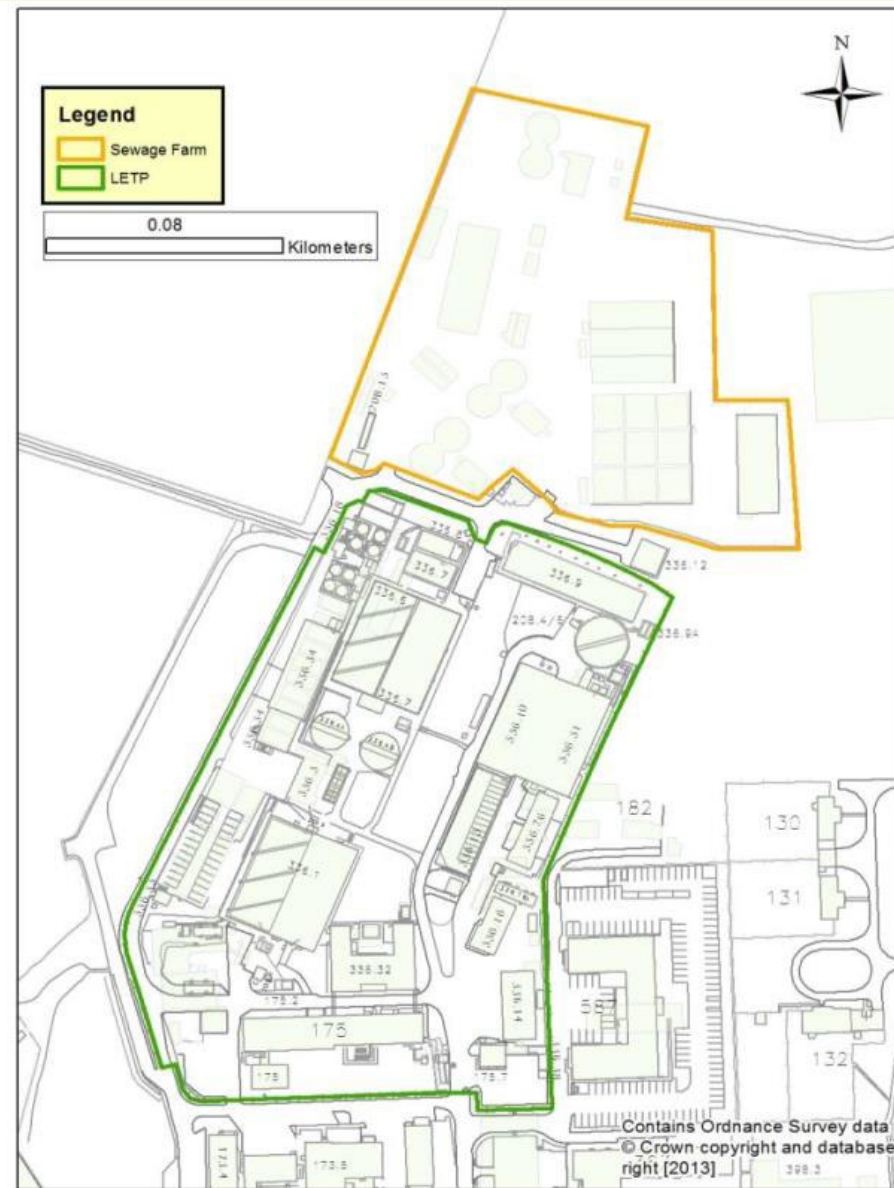
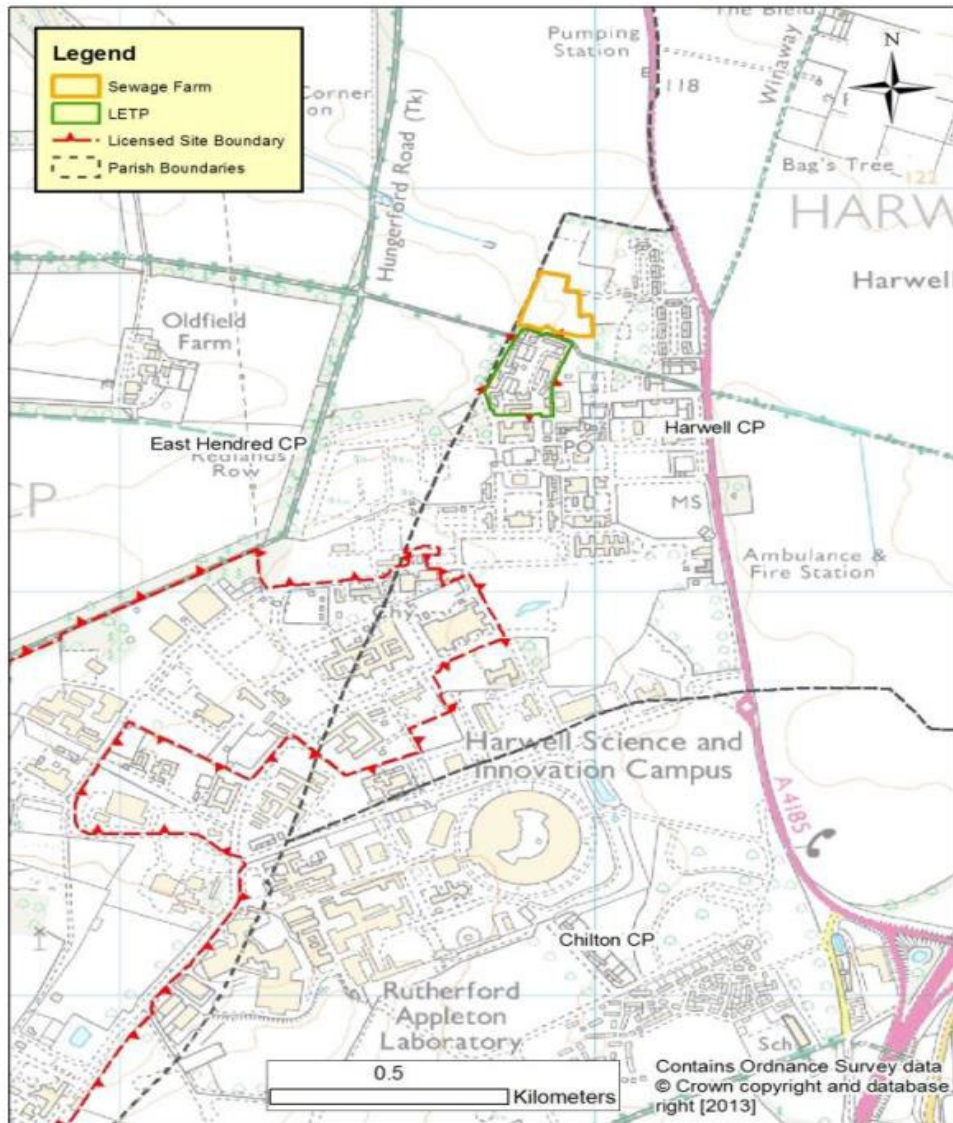
Liquid Effluent Treatment Plant (LETP) Land Remediation Update

April 2024

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18/04/24

LETP - Location



History

- From 1948 until 2014, the LETP operated to treat radioactive effluents from the main nuclear site.
- The Sewage Farm was used primarily for foul sewage treatment, until 2003 when site was connected to Thames Water's sewer
- Decommissioning of above ground structures at LETP was carried out between 2013 & 2018



FIG. 8. MOBILE RECEIVER ON HIGH LEVEL STORAGE TANKS

Aerial View, Looking South (1990s)



Bulk Land Remediation Contract Summary

- Remediation of contaminated structures and soils to allow removal of Environmental Permits (LETP and Sewage Farm) and Nuclear Site Licence (LETP)
- Work carried out 2018 to 2021
- 245,000 contractor man hours worked with no lost time events
- Novel and very effective processes used to ensure wastes correctly categorised and sent to the most appropriate routes
- Over 90% of the non-radioactive waste was reused or recycled



LETP Remediation Progress



Work Carried Out Since Bulk Remediation Completed

- Surveys and sampling for radioactivity carried out Summer 2022 (Jacobs for NRS, UK HSA for ONR)
 - As expected, some minor anomalies requiring further targeted remediation identified
- Surveys of drains carried out 2022-24 (Nuvia)
 - Initial assessment of results indicate no concerns
- Surveys and sampling at the Sewage Farm carried out Summer 2023 (WSP)
 - Results support re-use of suitable material from Sewage Farm to fill in the LETP to make the site physically safe
- Surveys and Sampling of land immediately outside LETP carried out Summer 2023 (WSP)
 - Results all very low and below regulatory limits except for samples from two soakaways to the east of the LETP where further data assessment is to be carried out

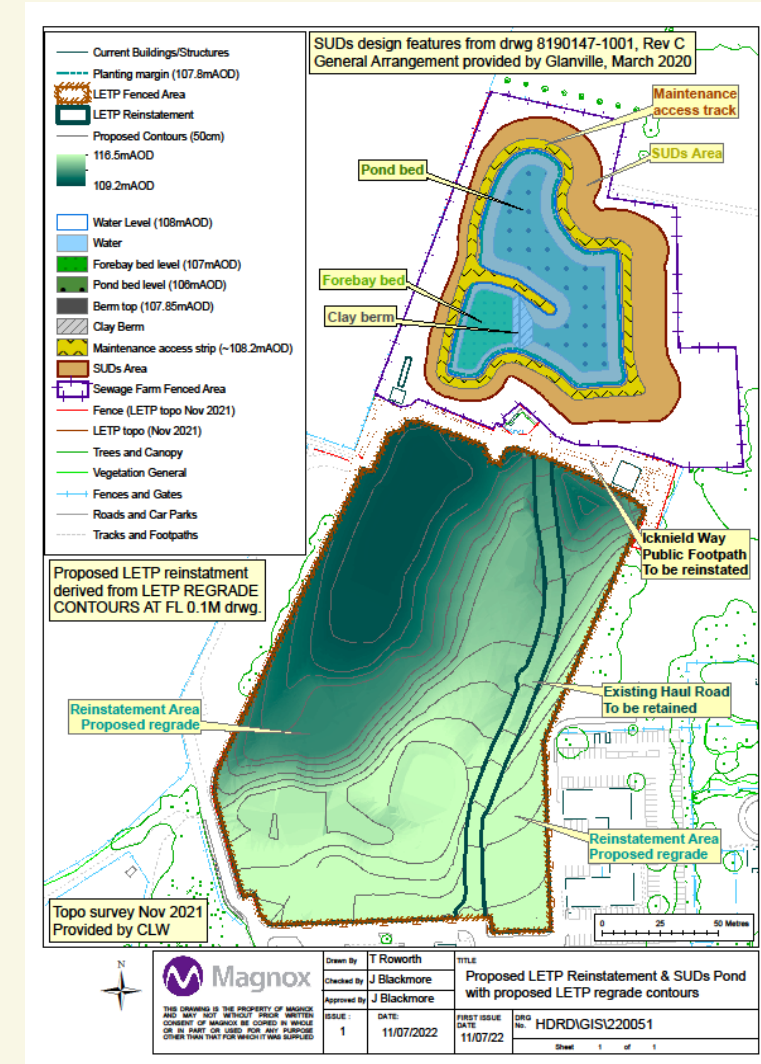
Remaining Work - Minor Remediation Works

- Remediation needed to address:
 1. Three specific areas where enabling works were needed eg Off-site Discharge Pipeline had high and low voltage cables which have now been diverted
 2. Areas where results from validation sampling in Summer 2022 indicated clean-up targets may not have been met (very low levels)
- Timing affected by groundwater levels – now scheduled for Summer and Autumn 2024
- Approximately 500 m³ of waste
- Smaller version of Bulk Remediation Contract



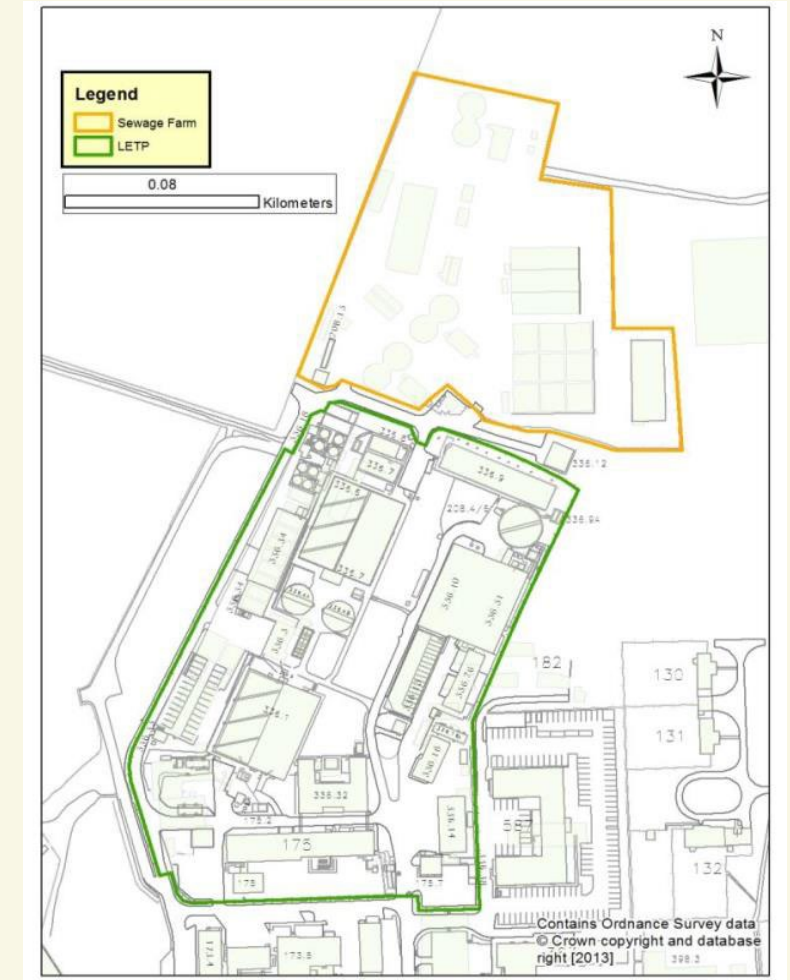
Remaining Work - SUDS Lagoon and LETP Reinstatement

- Sustainable Urban Drainage System (SUDS) Lagoon to be constructed on the Sewage Farm
- The SUDS lagoon will improve management of potential pollutants (eg diesel) in the surface water drainage system
- Suitable material (eg Chalk and limestone aggregate) from the Sewage Farm to be re-used to restore LETP to safe levels
- Due to be completed in Summer 2025 – groundwater levels remain a risk
- Bridleway to be opened once SUDS and Reinstatement completed – late 2025
- Reptile fencing north and east of Sewage Farm needs renewing – Spring 2024



Delicensing

- The NRS objectives for the LETP and Sewage Farm are to remove the regulatory controls
- This will allow release of the land back to the Harwell Campus
- Extensive surveys and sampling have been carried out to support this (over 700 samples tested)
- Ongoing interactions with the Office for Nuclear Regulation and the Environment Agency
- Aiming to submit delicensing case Autumn 2025
- Proportionate Regulatory Control' (PRC): Changes to the law and guidance on delicensing are currently underway – not currently expected to be used for LETP, but under review



LETP Summary

- Minor Remediation work Summer-Autumn 2024
- SUDS and Reinstatement contract Summer 2025
- Delicensing case submission Autumn 2025
- Bridleway to re-open late 2025
- Reptile fencing renewal Spring 2024