

Appendix C: Site Condition Report – H5

SITE CONDITION REPORT TEMPLATE

For full details, see H5 *SCR guide for applicants* v2.0 4 August 2008

COMPLETE SECTIONS 1-3 AND SUBMIT WITH APPLICATION

DURING THE LIFE OF THE PERMIT: MAINTAIN SECTIONS 4-7

AT SURRENDER: ADD NEW DOC REFERENCE IN 1.0; COMPLETE SECTIONS 8-10; & SUBMIT WITH YOUR SURRENDER APPLICATION.

1.0 SITE DETAILS	
Name of the applicant	Thames Water Utilities Limited
Activity address	Slough Sludge Treatment Centre Slough Sewage Treatment Works Thames House Wood Land Slough SL1 9EB
National grid reference	SU 94600 79465.
Document reference and dates for Site Condition Report at permit application and surrender	Environmental Permit Variation Application – Slough Sludge Treatment Centre. Document number: TW_STC_EPR_02a_SGH_ASD, EPR/LP3738LC/V011. Date: June 2023 Error! Unknown document property name.
Document references for site plans (including location and boundaries)	Please see site plans in Appendix A.

Note:

In Part A of the application form you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

If this information is not shown on the site plan required by Part A of the application form, then you should submit the additional plan or plans with this site condition report.

2.0 Condition of the land at permit issue	
Environmental setting including: <ul style="list-style-type: none"> • geology • hydrogeology • surface waters 	<p>The Jubilee River runs from west to east along the southern boundary of the site, prior to joining the River Thames to the east of the site.</p> <p>According to the Environment Agency's online flood maps, the site is at very low risk of flooding from both rivers and the sea and from surface water. Some parts of the site road close to the M4 are at a higher risk of surface water flooding.</p> <p>The site is within a Zone 2 Source Protection Zone.</p> <p>The geology of the site is London Clay, Formation bedrock consisting of clay, silt and sand sedimentary bedrock. This is overlain by two types of superficial deposits. In the</p>

	<p>West, sedimentary alluvium clays, silts, sands and gravels from fluvial origins. In the East, sand and gravel sedimentary deposits that are also fluvial in origin.</p> <p>Bedrock deposits are classified as Unproductive and superficial deposits are classified as either Principal or Secondary A aquifers.</p>
<p>Pollution history including:</p> <ul style="list-style-type: none"> • pollution incidents that may have affected land • historical land-uses and associated contaminants • any visual/olfactory evidence of existing contamination • evidence of damage to pollution prevention measures 	<p>The site is located South of the M4 motorway, approximately 3.5 km South-West of the town of Slough.</p> <p>The installation activities at the site are part of a wider TWUL operated sewage treatment works which handles and treats material which is similar in composition and makeup to the wastes treated within the installation. Prior to the 1920s, the site was agricultural and marsh land with the first parts of the sewage works being developed around 1925. The works was subsequently developed between in the 1940s and 1950s, By 1964 the M4 motorway was built on the Northern perimeter. The site was extended in the 1970s and now retains a very similar footprint.</p> <p>Note that the Roundmoor Ditch which lies on the southern boundary of the site is present from the 1880's, however the Jubilee River is a flood relief channel which was constructed post 1991.</p> <p>There is potentially one pollution incident on record with the Environment Agency relating to a pollution event in 2002 from within the perimeter of the wider works.</p>
<p>Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)</p>	<p>Unknown – although the works was operated as a sewage farm in its earliest phase, the site will therefore be contaminated with sewage related compounds, including e.coli and heavy metals.</p>
<p>Baseline soil and groundwater reference data</p>	<p>None collected.</p> <p>Substances that may be present by storage and use within the newly permitted installation are listed within the Tables of the Residue Management Plan. These substances (or similar substances used in the same processes) have been used historically at the site since it first operated.</p> <p>The following substances may be 'relevant hazardous substances':</p> <ul style="list-style-type: none"> • Diesel • Oil • Grease • Anti-freeze <p>These substances are stored with the CHP engine, and are used in their routine operation and maintenance.</p> <p>All other hazardous substances have been removed from assessment as they are not</p>

	<p>considered relevant. This is because storage and use are controlled at the site.</p> <p>Substances are stored within suitably engineered containers/with containment and volumes are small enough for spillage to be contained prior to reaching a sensitive environment. Use of substances is carefully managed to minimise the likelihood of an accidental release.</p>
Supporting information	<p>Thames Water has not collected baseline data at this time and acknowledges the risks that this may pose when it comes to surrender of the permit. However, there are no plans to close the site in the foreseeable future</p>

3.0 Permitted activities	
Permitted activities	<p>Operation of an anaerobic digestion plant for sewage sludge waste and imported sewage sludge wastes and combustion of biogas within a CHP engine to generate electricity for use on site.</p> <p>Imports of waste to the works inlet for treatment via the UWWTD route.</p>
Non-permitted activities undertaken	<ul style="list-style-type: none"> • Discharging of waste • Storage of waste • Storage of biogas • Physical blending of wastes • Storage of raw materials
<p>Document references for:</p> <ul style="list-style-type: none"> • plan showing activity layout; and • environmental risk assessment. 	<p>Please see the Technical Summary in Chapter 2 of the main application document.</p>

Note:

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (*Environmental Risk Assessment - EPR H1*) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as ‘dangerous’ under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater, we may need to request further information from you or even refuse your permit application.

4.0 Changes to the activity	
Have there been any changes to the activity boundary?	If yes, provide a plan showing the changes to the activity boundary.
Have there been any changes to the permitted activities?	If yes, provide a description of the changes to the permitted activities
Have any ‘dangerous substances’ not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	If yes, list of them
Checklist of supporting information	<ul style="list-style-type: none"> Plan showing any changes to the boundary (where relevant) Description of the changes to the permitted activities (where relevant) List of ‘dangerous substances’ used/produced by the permitted activities that were not identified in the Application Site Condition Report (where relevant)

5.0 Measures taken to protect land	
Use records that you collected during the life of the permit to summarise whether pollution prevention measures worked. If you can’t, you need to collect land and/or groundwater data to assess whether the land has deteriorated.	
Checklist of supporting information	<ul style="list-style-type: none"> Inspection records and summary of findings of inspections for all pollution prevention measures Records of maintenance, repair and replacement of pollution prevention measures

6.0 Pollution incidents that may have had an impact on land, and their remediation	
Summarise any pollution incidents that may have damaged the land. Describe how you investigated and remedied each one. If you can’t, you need to collect land and /or groundwater reference data to assess whether the land has deteriorated while you’ve been there.	
Checklist of supporting information	<ul style="list-style-type: none"> Records of pollution incidents that may have impacted on land Records of their investigation and remediation

7.0 Soil gas and water quality monitoring (where undertaken)

Provide details of any soil gas and/or water monitoring you did. Include a summary of the findings. Say whether it shows that the land deteriorated as a result of the permitted activities. If it did, outline how you investigated and remedied this.

Checklist of supporting information	<ul style="list-style-type: none">• Description of soil gas and/or water monitoring undertaken• Monitoring results (including graphs)
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8.0 Decommissioning and removal of pollution risk

Describe how the site was decommissioned. Demonstrate that all sources of pollution risk have been removed. Describe whether the decommissioning had any impact on the land. Outline how you investigated and remedied this.

Checklist of supporting information	<ul style="list-style-type: none"> • Site closure plan • List of potential sources of pollution risk • Investigation and remediation reports (where relevant)
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9.0 Reference data and remediation (where relevant)

Say whether you had to collect land and/or groundwater data. Or say that you didn't need to because the information from sections 3, 4, 5 and 6 of the Surrender Site Condition Report shows that the land has not deteriorated.

If you did collect land and/or groundwater reference data, summarise what this entailed, and what your data found. Say whether the data shows that the condition of the land has deteriorated, or whether the land at the site is in a "satisfactory state". If it isn't, summarise what you did to remedy this. Confirm that the land is now in a "satisfactory state" at surrender.

Checklist of supporting information	<ul style="list-style-type: none"> • Land and/or groundwater data collected at application (if collected) • Land and/or groundwater data collected at surrender (where needed) • Assessment of satisfactory state • Remediation and verification reports (where undertaken)
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10.0 Statement of site condition

Using the information from sections 3 to 7, give a statement about the condition of the land at the site. This should confirm that:

- the permitted activities have stopped
- decommissioning is complete, and the pollution risk has been removed
- the land is in a satisfactory condition.