

## Shellingford Quarry Inert Landfill

Case Reference EPR/BP3095EU/V004

### Site Condition Report

1.0 SITE DETAILS	
Name of the applicant	Multi-Agg Limited
Activity address	Shellingford Quarry Landfill Stanford Road Stanford in the Vale Faringdon Oxfordshire SN7 8HE
National grid reference	SU 32700 93600
Case reference number	EPR/BP3095EU/V004
Permit number	EPR/BP3095EU
Date and version of SCR	October 2025 SCR V1
Supporting information	Submitted with the Environmental Permit application: <ul style="list-style-type: none"><li>• Environmental Risk Assessment (Appendix Hi)</li><li>• Environmental Setting and Site Design (Appendix Hii)</li><li>• Hydrogeological Risk Assessment (Appendix Hiv)</li><li>• Landfill Gas Risk Assessment (Appendix Hv)</li><li>• Stability Risk Assessment (Appendix Hvi)</li><li>• Surface Water Management Plan (Appendix Hvii)</li><li>• Site plan (Appendix K)</li></ul>

2.0 Condition of the land at permit issue	
Environmental setting including: <ul style="list-style-type: none"><li>• geology</li></ul>	Geology

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<ul style="list-style-type: none"> <li>• hydrogeology</li> <li>• surface waters</li> </ul>	<p>The geology of the site and the surrounding area is described in detail in Appendix Hii (ESSD report Section 3.3).</p> <p>The geological setting of the site has been determined based on a review of published information, site investigation information and observations made in the existing quarry excavation and the western extension area.</p> <p>Strata represented in the existing quarry and the western extension area belong to the Stanford Formation and the underlying Kingston Formation which form part of the Corallian Group. The strata within and near the site generally dip to the south and southeast at variable gradients of between c. 1v : 40h (vertical : horizontal) and c. 1v : 100h. However, variations in strata dip and dip direction occur as a result of lateral variations in strata character and thickness.</p> <p>More specifically, the strata comprise:</p> <ul style="list-style-type: none"> <li>• Bedrock strata – Limestone (Calne Member, Stanford Formation) (Jurassic).</li> <li>• Bedrock strata – Limestone (Highworth Grit Member, Kingston Formation) (Jurassic).</li> <li>• Bedrock strata – Mudstone (Highworth Clay Member, Kingston Formation) (Jurassic).</li> <li>• Bedrock strata – Limestone (Highworth Limestone Member, Kingston Formation) (Jurassic).</li> <li>• Bedrock strata – Limestone (Lower Calcareous Grit Formation, Corallian Group) (Jurassic).</li> <li>• Bedrock strata – Mudstone (Oxford Clay Formation, Ancholme Group) (Jurassic).</li> </ul> <p><b>Hydrogeology</b></p> <p>The hydrogeology of the site and the surrounding area is described in detail in Appendix Hiv (Hydrogeological Risk Assessment).</p> <p>The Corallian Group bedrock strata which underlies the site and the surrounding area is classified by the Environment Agency (EA) as a Secondary A Aquifer.</p> <p>The site is located in an unproductive superficial drift aquifer designation.</p> <p>The site is not situated within a Groundwater Source Protection Zone.</p>
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	<p><b>Surface Waters</b></p> <p>The hydrology of the site and the surrounding area is described in detail in Appendix Hiv (Hydrogeological Risk Assessment).</p> <p>The Holywell Brook (a tributary of the River Ock) flows in a southerly direction along the eastern side of Shellingford village (<i>c.</i> 200m west of the western extension area) and then in an easterly direction (<i>c.</i> 100m south of the existing site and western extension area) towards its confluence with the River Ock near Manor Farm <i>c.</i> 1.1km southeast of the site. An unnamed tributary of the Hollywell Brook flows from the west to join the main channel <i>c.</i> 350m southeast of the application area.</p> <p>The Frogmore Brook is located <i>c.</i> 750m northeast of the site at its closest approach and flows in a south-easterly direction where it meets the River Ock <i>c.</i> 1.6km east of the site.</p> <p>The closest waterbody to the site is located in the western part of the restored Shellingford Crossroads Quarry <i>c.</i> 70m to the north of the existing quarry and <i>c.</i> 260m to the northeast of the western extension area. The waterbody is not groundwater fed and Google Earth aerial images show that the waterbody has largely dried out since 2012.</p> <p>A pond is located <i>c.</i> 300m south of the site, within the footprint of the White Horse Business Park. A pond is also located 400m south of the site and another pond is situated <i>c.</i> 650m south of the site along the northern edge of the Holywell Brook.</p> <p>Two attenuation ponds associated with the new housing development built at River Meadow (off Faringdon Road/Ware Road) are situated 240m and 370m to the southeast of the site, respectively.</p> <p>A spring issue is located immediately north of Shellingford village, which appears to contribute to, but not to be the sole source of, flow in the Holywell Brook.</p> <p>The site is situated within Flood Zone 1.</p> <p>The site has small standalone areas at risk of pluvial (surface water) flooding, but no areas that contribute to off-site receptors.</p> <p>It is considered that the site does not lie within an area which is at risk of flooding.</p>

<p>Pollution history including:</p> <ul style="list-style-type: none"> <li>• pollution incidents that may have affected land</li> <li>• historical land-uses and associated contaminants</li> <li>• any visual/olfactory evidence of existing contamination</li> <li>• evidence of damage to pollution prevention measures</li> </ul>	<p><b>Pollution incidents that may have affected the land</b></p> <p>None associated with the inert landfill EPR Permit EPR/BP3095EU.</p> <p><b>Historical land uses and associated contaminants</b></p> <p>The permitted site, including the western extension area, was historically a greenfield site used for agriculture.</p> <p>The restored Shellingford Crossroads Quarry historical landfill exists to the north of the permitted Shellingford Quarry site (immediately to the north of the A417) c. 200m to the northeast of the western extension area. With the exception of the most western part (which was left as an excavation void to revegetate naturally) the Shellingford Crossroads Quarry historical landfill was restored using imported domestic and commercial waste (and accepted 'difficult' wastes). The landfill was operated as 'dilute and disperse'.</p> <p>British Geological Survey (BGS), Local Authority and EA historical landfill records also exist for areas just to the north of Faringdon Road located adjacent to the northern boundary of the existing permitted site area. These records indicate that inert, industrial, commercial, household, special and liquid sludge wastes were accepted at these sites. The Stanford Waste Recycling and Reception Centre now operates at this location.</p> <p><b>Visual/olfactory evidence of existing contamination</b></p> <p>None associated with the inert landfill EPR Permit EPR/BP3095EU.</p> <p><b>Evidence of damage to pollution prevention measures</b></p> <p>None.</p>
<p>Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)</p>	<p>None.</p>
<p>Baseline soil and groundwater reference data</p>	<p>See Appendices Hii (Environmental Setting and Site Design) and Hiv (Hydrogeological Risk Assessment).</p>

<b>3.0 Permitted activities</b>	
Permitted activities	<p>Landfill for inert waste – D1 Deposit into or onto land, e.g. landfill.</p> <p>Shellingford Quarry Landfill currently operates under Environmental Permitting Regulations (EPR) Permit EPR/BP3095EU which provides for the landfilling with imported inert waste of the quarry excavation in accordance with extant Planning Permissions STA/SHE/8554/12-CM (MW.0020.11) and STA/SHE/8554/11-CM (MW.0021.11).</p>
Non-permitted activities undertaken	<p>Planning Permission P18/V2610/CM (MW.0104/18) has been approved to allow extraction of sand and limestone from the western extension to Shellingford Quarry and to restore the excavation in the extension area to original ground levels using imported inert waste material and indigenous soils.</p>
Document references for: <ul style="list-style-type: none"> <li>• plan showing activity layout; and</li> <li>• environmental risk assessment.</li> </ul>	<p><b>Plan showing activity layout</b> Appendix K of Environmental Permit variation application.</p> <p><b>Environmental risk assessment</b> Appendix H of Environmental Permit variation application.</p>

## 4.0 Changes to the activity

Have there been any changes to the activity boundary?

Planning Permission P18/V2610/CM (MW.0104/18) has been approved to allow extraction of sand and limestone from the western extension to Shellingford Quarry and to restore the excavation in the extension area to original ground levels using imported inert waste material and indigenous soils.

The EPR Permit application is to vary the existing EPR Permit EPR/BP3095EU to add a deposit for recovery activity to accommodate infilling within the adjacent western quarry excavation area with imported inert waste. The inert fill capacity associated with the deposit for recovery activity is c. 1.60Mm<sup>3</sup> which equates to a tonnage of c. 2.88Mt (using a conversion factor of 1.8t/m<sup>3</sup>).

The additional deposit for recovery activity associated with the Permit variation will be limited to the western quarry excavation area that is adjacent to the inert landfilling area covered by the existing EPR Permit. This means the current Permit boundary will need to be extended to the west and south to allow for the additional deposit for recovery activity.

Drawing No. SHELLQMA2508-1 within the Environmental Setting and Site Design Report (Appendix Hii) shows the site location.

Drawing No. SHELLQMA2508-2 within the Environmental Setting and Site Design Report (Appendix Hii) shows the EPR Permit variation application area within the context of the existing EPR Permit area, highlighting where the deposit for recovery activity in the western extension area will take place.

Drawing No. SHELLQMA2508-3 within the Environmental Setting and Site Design Report (Appendix Hii) is the site plan which shows the total extent of the varied EPR Permit area being applied for. The boundary shown on Drawing No. SHELLQMA2508-3 is to be the varied Permit boundary. The site plan is also provided within Appendix K of the EPR Permit variation application.

Have there been any changes to the permitted activities?	The EPR Permit application is to vary the existing EPR Permit EPR/BP3095EU to add a deposit for recovery activity to accommodate infilling within the adjacent western quarry excavation area with imported inert waste.
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	None.

## 5.0 Measures taken to protect land

No pollution incidents that may have damaged the land have occurred during site operation, therefore no pollution remediation was required.

Steps taken on the site to avoid any pollution risks:

- Site operation in accordance with Environmental Permit, Planning Permissions, EMS and Waste Acceptance Criteria and Procedures.
- Site management by staff with appropriate level of technical competence.
- Acceptance of inert waste only (waste types within Schedule 2 of the Permit).

## 6.0 Pollution incidents that may have had an impact on land, and their remediation

No pollution incidents that may have damaged the land have occurred during site operation, therefore no pollution remediation was required.

## 7.0 Soil gas and water quality monitoring (where undertaken)

External landfill gas, groundwater quality and surface water quality environmental monitoring has been undertaken in accordance with the requirements set out in Schedule 3 of existing Environmental Permit EPR/BP3095EU.

Monitoring data for the site is submitted to the Environment Agency on a quarterly basis and is also included within the Annual Reports submitted to the Environment Agency under the requirement of Condition 4.2.2 of the Environmental Permit.