

# ELTON 2 QUARRY RESTORATION ENVIRONMENTAL PERMIT APPLICATION

## Site Condition Report

Prepared for: Ingrebourne Valley Limited

Client Ref: 01526

SLR Ref: 416.01526.00029  
Version No: 1  
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## BASIS OF REPORT

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Drawing 001 – Site Location Plan

Drawing 002 – Site Boundary

## 1.0 Introduction

Ingrebourne Valley Limited has instructed SLR Consulting Limited (SLR) to prepare a Site Condition Report (SCR) in support of an environmental permit application to authorise the deposit of waste as a recovery operation for the restoration of Elton 2, located near Warmington, Northants.

The Site is approximately 20 hectares in size and prior to development consisted mainly of agricultural pasture used for livestock grazing. IV propose to extract ca. 850 – 900,000 tonnes of sand and gravel from the Site and restore it using in-situ materials and up to approximately 550,000m<sup>3</sup> imported inert waste. Mineral will be extracted down to the clay which underlies the sand and gravel seam. The underlying clay forms a natural geological barrier. During extraction of each phase, the clayey overburden will be used to construct an artificial side wall attenuation barrier.

The location of the Site is illustrated in Drawing 01 and the permit boundary plan is illustrated on Drawing 02. A Site Condition Report (SCR) is only necessary for the part of the Site where waste is not being permanently deposited. Therefore, this SCR only covers the area outside the restoration marked as ‘material transfer haul road area’ on Drawing 02 and does not include the area where extraction and infill takes place.

This SCR has been prepared in accordance with the Environment Agency’s H5 Guidance Note on SCR<sup>1</sup>. The objective of the SCR is to record and describe the condition of the land at the site at the time of the EP application. The SCR will provide a point of reference and baseline environmental data so that when the EP is surrendered it can be demonstrated that there has been no deterioration in the condition of the land as a result of the proposed operations, and ensure that the condition of the land is in a ‘satisfactory state’ on surrender of the EP.

Sections 1 to 3 of the EA’s SCR template have been completed in the preparation of this document, which comprises the following:

- site details;
- condition of the land at permit issue;
  - geology;
  - hydrogeology;
  - hydrology;
- pollution history;
- evidence of historic contamination; and
- permitted activities.

Section 4 to 7 of the SCR template will be maintained during the life of the EP and Sections 8 to 10 will be completed and submitted in support of the application to surrender the EP.

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<sup>1</sup> EA Guidance; Site Condition Report – guidance and templates, Version 3, May 2013.

## 2.0 Site Condition Report H5 Template

1.0 Site Details	
Name of the applicant	Ingrebourne Valley Limited
Activity address	Elton 2 Quarry Warmington Northants PE8 6TL
National grid reference	TL 07175 91938 (restoration area)

Document reference and dates for Site Condition Report at permit application and surrender	416.01526.00029/SCR, November 2021
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Document references for site plans (including location and boundaries)	Drawing 01 – Site Location Plan Drawing 02 – Site Layout & Permit Boundary
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2.0 Condition of the Land at Permit Issue	
Environmental setting including: <ul style="list-style-type: none"> <li>• geology</li> <li>• hydrogeology</li> <li>• surface waters</li> </ul>	<p><b>Geology</b></p> <p>The Site is underlain by River Terrace Deposits and the underlying bedrock geology comprises the Grantham Formation, consisting of ‘mudstones, sandy mudstones and argillaceous siltstone-sandstone’ and the Rutland Formation consisting of ‘argillaceous with subordinate Sandstone &amp; Limestone’ in the southeastern area of the site only.</p> <p><b>Hydrogeology</b></p> <p>The River Terrace Deposits are designated as a Secondary A Aquifer, described as:</p> <p><i>“permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers”</i></p> <p>The Grantham Formation is classified as a Secondary (Undifferentiated) Aquifer, described as:</p> <p><i>“rock layers where it has not been possible to attribute either category A or B. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type”.</i></p> <p>The Site is not located within a Source Protection Zone (SPZ).</p>

	<p><b>Hydrology</b></p> <p>Surface water potential receptors at or immediately adjacent to the Site are:</p> <ul style="list-style-type: none"> <li>• the River Nene Mill Stream adjacent to the western boundary of the haul road/material transfer area;</li> <li>• the River Nene Mill Stream overflow channel immediately south; and</li> <li>• a lake and wetland at the Elton 1 reservoir adjacent to the northern boundary.</li> </ul> <p><b>Flooding</b></p> <p>The Flood Map for Planning<sup>2</sup> confirms that part of the Site lies within a Flood Zone 3, which is defined as ‘land having a 1 in 100 or greater annual probability of river or sea flooding’ and part is flood zone Zone 2 ‘land having between 1:100 and 1:1,000 chance of flooding from rivers’.</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 History</b></p> <p>The Envirocheck report identifies 6 minor incidents, accidental spillage/leakage to controlled waters within 1km from the Site boundary. Four of the minor incidents occurred in 1992 and 2 occurred in 1997. One significant incident occurred in 1993 to a tributary of the River Nene located approximately 900m to the south of the Site.</p> <p><b>Historical Maps</b></p> <p><b>On site:</b> Historical mapping records identify that the entirety of the Site consisted of agricultural/open ground up to 2006. By 2006, Elton 1 works had commenced to the north. A small water body had formed on site. By 2020 the Site was again open ground with the restored Elton 1 reservoir located to the north.</p> <p><b>Off-site:</b> Throughout its recent history the predominant land use in the Site’s vicinity has been agricultural use.</p> <p>Records show that as early as 1885, the hamlet of Eaglethorpe and Warmington Village are present in the Site’s vicinity. Records show that between 1958 and 1976, Lady Margaret Cottages are present in the Site’s vicinity.</p> <p>One major road construction, the A605, has occurred near to the Site since 1994.</p> <p><b>Historical Land-uses</b></p> <p>The Envirocheck report and analysis tool did not identify any potentially polluting historical land uses either within the area of the Site or within 1km off-site.</p>

<sup>2</sup> Gov.uk, Flood Map for Planning, available at <https://flood-map-for-planning.service.gov.uk/>, accessed in March 2021

Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)	As a result of the agricultural history of the site and its surroundings, it is not anticipated that the Site is contaminated.
Baseline soil and groundwater reference data	As a result of the agricultural history of the Site and its surroundings, it is not anticipated that the Site is contaminated and no baseline reference data have been obtained.
<b>Supporting information</b>	<ul style="list-style-type: none"> <li>• Envirocheck Report – March 2021.</li> </ul>

<b>3.0 Permitted Activities</b>	
<i>Permitted activities</i>	R5: Recycling / reclamation of inorganic compounds – use of waste for the purpose of restoration of land
Non-permitted activities undertaken	N/A.
Document references for: <ul style="list-style-type: none"> <li>• Plan showing activity layout; and</li> <li>• Environmental risk assessment.</li> </ul>	<ul style="list-style-type: none"> <li>• Drawing 01: Site Location Plan</li> <li>• Drawing 02: Site Boundary</li> <li>• 416.01526.000029/ERA</li> </ul>

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