### Oxfordshire County Council, Minerals & Waste SFRA

#### Mineral Site SG-42: Land at Nuneham Courtenay

**District:** South Oxfordshire DC  
**Parish:** Nuneham Courtenay CP

| Total Area: 67.42 Ha |  
|----------------------|-----------------------------|
|                      | Total Area: 67.42 Ha |

| Area in Flood Zone 1 | 22.98 | 26.3 |
| Area in Flood Zone 2 | 15.66 | 17.8 |
| Area in Flood Zone 3a with Climate Change | 6.0 | 9.0 |
| Area in Flood Zone 3b | 5.56 | 8.8 |
| Area in Flood Zone 3c | 34.25 | 52.2 |

**Main River:** The Upper Thames watercourse flows north to south along the western edge of the site. The Ponsley Ditch also flows north to south approximately 0.5km west of the site.

**Flood Records:** There are historic records of flood damage along this part of the river course. There are three properties near the south of the site recorded to have experienced flooding from the main river.

Modelling of the 1 in 100 year flood event, as part of the SOCGC & WHGSC SFRA, identifies that parts of Radley and Lower Radley to the west of the site are susceptible to surface water flooding.

There are no reported incidents of groundwater flooding in this area.

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**Map Legend:**
- County/District Boundary
- Parish Boundary
- Minerals Site
- Canal
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3b
- Flood Zone 3c
- EA Historic Flood Outline
- Flood Defences
- Flood Storage Areas
- July 2007 Flood Records
- Surface Water Flooding
- Groundwater Flooding
- EA Main Rivers

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**Scale:** 1:10,000

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**Map Notes:**
- Produced by OS for Mineral Planning and Waste SFRA - Mineral Site SG-42

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**Date:** 14/03/2023

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**OS Grid Reference:**
- SU708180

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**Ref:** D120605 / SG-42

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**Page C-31**
Mineral Site SG-43: Land at Marcham

District: Vale of White Horse DC
Parish: Marcham CP

Total Area: 215.5 Ha

<table>
<thead>
<tr>
<th>Area in Flood Zone</th>
<th>Hа</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area in Flood Zone 1</td>
<td>37.8</td>
<td>17.6</td>
</tr>
<tr>
<td>Area in Flood Zone 2</td>
<td>19.1</td>
<td>4.6</td>
</tr>
<tr>
<td>Area in Flood Zone 3a with Climate Change</td>
<td>11.2</td>
<td>5.2</td>
</tr>
<tr>
<td>Area in Flood Zone 3b</td>
<td>7.2</td>
<td>3.4</td>
</tr>
</tbody>
</table>

MAIN RIVER

The Marcham Brook flows north to south through the western part of the site to join the River Ock, which flows east along the southern edge of the site. The Sandford Brook flows north to south through the middle of the site.

FLOOD RECORDS

The site lies within an area of historic flooding. There are records of 5-10 flooding incidents in Marcham associated with fluvial flooding from the Marcham Brook and drainage problems leading to flooding. 100-500 properties are recorded to have experienced fluvial flooding in Abingdon where the River Ock and Sandford Brook join the Upper Thames catchment.

Modelling of the 1 in 100 year storm event, undertaken as part of the GSDC & VWHDC SFRA, identified parts of Abingdon and Drayton at risk of surface water flooding.

ENVIRONMENT AGENCY COMMENTS

The rule is located within the functional floodplain of the River Ock. The EA have recently been working to reduce flood risk to Abingdon and the site was considered as a potential location for a flood storage area. The EA Asset System Management or Flood Risk Management teams should be contacted for further details.

Legend

- County/District Boundary
- Parish Boundary
- Minerals Site
- Canal
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3a + CC
- Flood Zone 3b
- EA Historic Flood Outline
- Flood Defences
- Flood Storage Areas
- July 2007 Flood Records
- Groundwater Flooding
- EA Main Rivers

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Mineral Site SG-44: Land at Little Wittenham, Long Wittenham

District: South Oxfordshire DC
Parish: Long Wittenham CP & Little Wittenham CP
Total Area: 505.4 Ha

Main River:
The site lies within a meander bend of the Upper Thames watercourse. The Radley Brook and Pomey ditch flow north to south approximately 3km north west of the site. There are two stretches of maintained channel and bank protection along this part of the watercourse.

Flood Records:
There are historic records of flooding along this part of the river corridor. 4 properties have recorded being affected by flooding from the main river. Modelling of the 1 in 100 year storm event as part of the VHQC & SGCC SFRA identifies parts of Clifton Hampden, Dunsden and Little Wittenham to be at risk of surface water flooding.

There are no reported incidents of groundwater flooding in this area.

Environment Agency Comments:
The site is located in the functional floodplains of the River Thames. The EA have significant assets upstream at Clifton Hampden lock and weir, and downstream at Days lock and weir. Improvements and alignments are scheduled for 2018 and 2019 respectively. The Asset System Management or Flood Risk Management teams should be contacted for further details.
Mineral Site SG-45: Land at Appleford, Long Wittenham

Oxfordshire County Council, Minerals & Waste SFRA

District: Vale of White Horse DC & South Oxfordshire DC
Parish: Appleford-on-Thames CP & Long Wittenham CP

Total Area: 248.4 Ha

<table>
<thead>
<tr>
<th>Zone/Change</th>
<th>Ha</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area in Flood Zone 1</td>
<td>140.30</td>
<td>56.6</td>
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<tr>
<td>Area in Flood Zone 2</td>
<td>46.17</td>
<td>18.6</td>
</tr>
<tr>
<td>Area in Flood Zone 3a with Climate Change</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td>Area in Flood Zone 3b</td>
<td>0.00</td>
<td>0.4</td>
</tr>
<tr>
<td>Area in Flood Zone 3c</td>
<td>60.42</td>
<td>24.2</td>
</tr>
</tbody>
</table>

MAIN RIVER
The site lies partially within the floodplain of the Upper Thames watercourse. The Moor Ditch and Liddingford Ditch flow south to south through the site to join the Upper Thames.

FLOOD RECORDS
There are historic records of flooding along this part of the river corridor.

Modelling of the 1 in 100 year storm event as part of the WADIC & SCDC SFRA identifies parts of Clifton Hampden, Binsey and Long Wittenham to be at risk of surface water flooding.

There are no reported incidents of groundwater flooding in this area.
**Oxfordshire County Council, Minerals & Waste SFRA**

**Mineral Site SG-46: Land northeast of Cholsey**

**District:** South Oxfordshire DC  
**Parish:** Cholsey CP

**Total Area:** 43.05 Ha  
**HA**  
**%**

- **Area in Flood Zone 1:** 43.05  
  **100**
- **Area in Flood Zone 2:** 0.00  
  **0**
- **Area in Flood Zone 3a with Climate Change:** 0.00  
  **0**
- **Area in Flood Zone 3b:** 0.00  
  **0**

**MAIN RIVER:**
The Cholsey Brook flows west to east approximately 0.3km north of the site and the Hambrook Ditch flows north west to south east approximately 0.6km north of the site. Both these watercourses join the Upper Thames east of the site.

**FLOOD RECORDS & DATA:**
Land to the north and east, in the floodplain of the Upper Thames (ie within the historic flood outline associated with the watercourses), there are records of 5-10 properties experiencing flooding from the Upper Thames in Wallingford.

In modelling of the 1 in 100 year flood event, as part of the SCDC & WWA/CC SFRA, identifies that parts of Wallingford and Cholsey are at risk of surface water flooding.

Thames Water has records of sewer flooding in Wallingford and Cholsey in the last ten years.

There are no records of groundwater flooding in this area.

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**Legend:**
- County/District Boundary  
- Parish Boundary  
- Minerals Site  
- Canal  
- Flood Zone 2  
- Flood Zone 3a  
- Flood Zone 3a + CC  
- Flood Zone 3b  
- EA Historic Flood Outline  
- Flood Defences  
- Flood Storage Areas  
- July 2007 Flood Records  
- Groundwater Flooding  
- EA Main Rivers  

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Page C-35
Mineral Site SG-47: Land at Wallingford, Benson

Main River
The Upper Thames River flows north to south approximately 0.7km east of the site. There are flood defences present along sections of this watercourse.

Flood Records
Incidents of groundwater flooding have been recorded to the east of the site, around the settlements of Everdon and Benson.

Modelling of the 1 in 100-year storm event, undertaken as part of the SODC & WADC SFRA, identifies this area around Benson, Brightwell and Preston Cresset to be at risk of surface water flooding.
Oxfordshire County Council, Minerals & Waste SFRA

Mineral Site SG-48: Land at Stadhampton

District: South Oxfordshire DC
Parish: Little Milton CP & Stadhampton CP

Total Area: 234.1 Ha

<table>
<thead>
<tr>
<th>Area in Flood Zone 1</th>
<th>Max</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>131.64</td>
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<tr>
<td>Area in Flood Zone 2</td>
<td>18.63</td>
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<tr>
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<tr>
<td>Area in Flood Zone 3b</td>
<td>0.00</td>
<td>0</td>
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<tr>
<td>Area in Flood Zone 3c</td>
<td>103.83</td>
<td>44.0</td>
</tr>
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</table>

MAIN RIVER:
The River Thame flows north to south along the western edge of the site. The Oakbridge Brook and Bledlow Brook flow west to east through the site to join the River Thame. The Bledlow Brook flows north to south approximately 0.5 km east of the site. The Chalgrove Brook flows west to east approximately 0.5 km south of the site.

FLOOD RECORDS & DATA:
Parts of the site are recorded to have experienced flooding from these watercourses.

Modelling of the 1 in 100 year storm event, as part of the GCLC & VWHDC SFRA identifies Gomshall Green, west of the site and Uckfield, north of the site, as being at risk of surface water flooding.

There are no recorded incidents of groundwater flooding in this area.

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Page C-37
Mineral Site SG-49: Land at Chalgrove

District: South Oxfordshire DC
Parish: Chalgrove CP & Stadhampton CP

Total Area: 0.475 ha

<table>
<thead>
<tr>
<th>Area Type</th>
<th>Area (ha)</th>
<th>%</th>
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</thead>
<tbody>
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<td>Area in Flood Zone 1</td>
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<tr>
<td>Area in Flood Zone 3b</td>
<td>0.000</td>
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</tr>
<tr>
<td>Area in Flood Zone 3c</td>
<td>0.022</td>
<td>4.6</td>
</tr>
</tbody>
</table>

MAIN ROGERS:
The Hawley Brook flows west along the north of the site and meets the River Thames which flows north to south, approximately 2km west of the site. The Chalgrove Brook flows east to west approximately 0.5km south of the site.

FLOOD RECORDS & DATA:
A portion of the site is recorded to have experienced flooding in the past, which is likely to be associated with a drainage ditch close to Rushford Farm.

Modelling of the 1 in 100 year storm event, as part of the SCDC & WWHDC SFRA identifies parts of Chalgrove, south of the site, and Caswell, west of the site, as being at risk of surface water flooding.

There are no recorded incidents of groundwater flooding in this area.

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**Mineral Site SG-51: Land in the Evenlode Valley**

**District:** West Oxfordshire DC  
**Parish:** Eynsham CP  
**Total Area:** 14.8 Ha

<table>
<thead>
<tr>
<th>Feature</th>
<th>Ha</th>
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</thead>
<tbody>
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</tr>
<tr>
<td>Area in Flood Zone 2</td>
<td>3.56</td>
<td>23.7</td>
</tr>
<tr>
<td>Area in Flood Zone 3a with Climate Change</td>
<td>2.25</td>
<td>15.1</td>
</tr>
<tr>
<td>Area in Flood Zone 3b</td>
<td>0.04</td>
<td>0.3</td>
</tr>
<tr>
<td>Area in Flood Zone 3c</td>
<td>7.08</td>
<td>53.2</td>
</tr>
</tbody>
</table>

**MAINTAINERS:**

The Evenlode flows north to south close to the eastern boundary of the site. There are no formal flood defences along this section of the watercourse. The Eynsham Mead Ditch flows along the western boundary of the site.

**FLOOD RECORDS & DATA:**

The site lies within an area recorded to have experienced flood flooding from the Evenlode. 10 individual properties are recorded to have experienced flooding from this river course.

There are no records of groundwater flooding in this area.

NB: The surface water modelling for the 1 in 100 year storm has only been undertaken for SOCDC and WMDC as part of their combined SFRA.

**ENVIRONMENT AGENCY COMMENTS:**

The site is located in the functional floodplains and the proposed extraction is upstream of Eynsham weir where the EA have recently completed fish passage works to reduce flood risks. The EA would apply stringent requirements to minimise the loss of flood storage and flow in this area.
Mineral Site SG-52, Land at Sutton Wick

District: Vale of White Horse DC & South Oxfordshire DC
Parish: Abingdon CP, Drayton CP, Sutton Courtenay CP & Culham CP

Total Area: 49.11 Ha

<table>
<thead>
<tr>
<th>Zone</th>
<th>Area (Ha)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Flood Zone 1</td>
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<tr>
<td>In Flood Zone 2</td>
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<tr>
<td>In Flood Zone 3b</td>
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<tr>
<td>In Flood Zone 3c (CC)</td>
<td>46.62</td>
<td>92.7</td>
</tr>
</tbody>
</table>

Main River:
The Upper Thames watercourse flows north to south east of the site. The channels that form the
Oxsey Dettes network pass through both sites. The Ginge Brook flows south to north and joins the
Upper Thames just south of the site. The site lies within Flood Zone 3b (Functional Floodplain,
which has an annual probability of flooding of 5% (1 in 20 year flood event).

Flood Records & Evidence:
The site lies within an area that has historically experienced river flooding. There are no flood
defences present along part of the watercourse adjacent to the site.

Modeling of the 1 in 100 year event identifies parts of Clifton Hampden and Sutton Courtenay
being at risk of riverine (channel) flooding.

Floodgates have been installed at a large number of properties in Abingdon further upstream, as
well as the OX3 and Sandford Brook and lead into the Upper Thames. Flooding has also been
recorded in isolated properties in Culham and Clifton Hampden.

There are no reported incidents of groundwater flooding in this area.

Environment Agency Comments:
The site is located in the functional floodplain and adjacent to the River Thames navigation. The
EA has a duty to maintain navigation and early consultation is advised with the EA waterways team.

The EA have significant assets downstream at Culham lock.

Legend:
- County/District Boundary
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