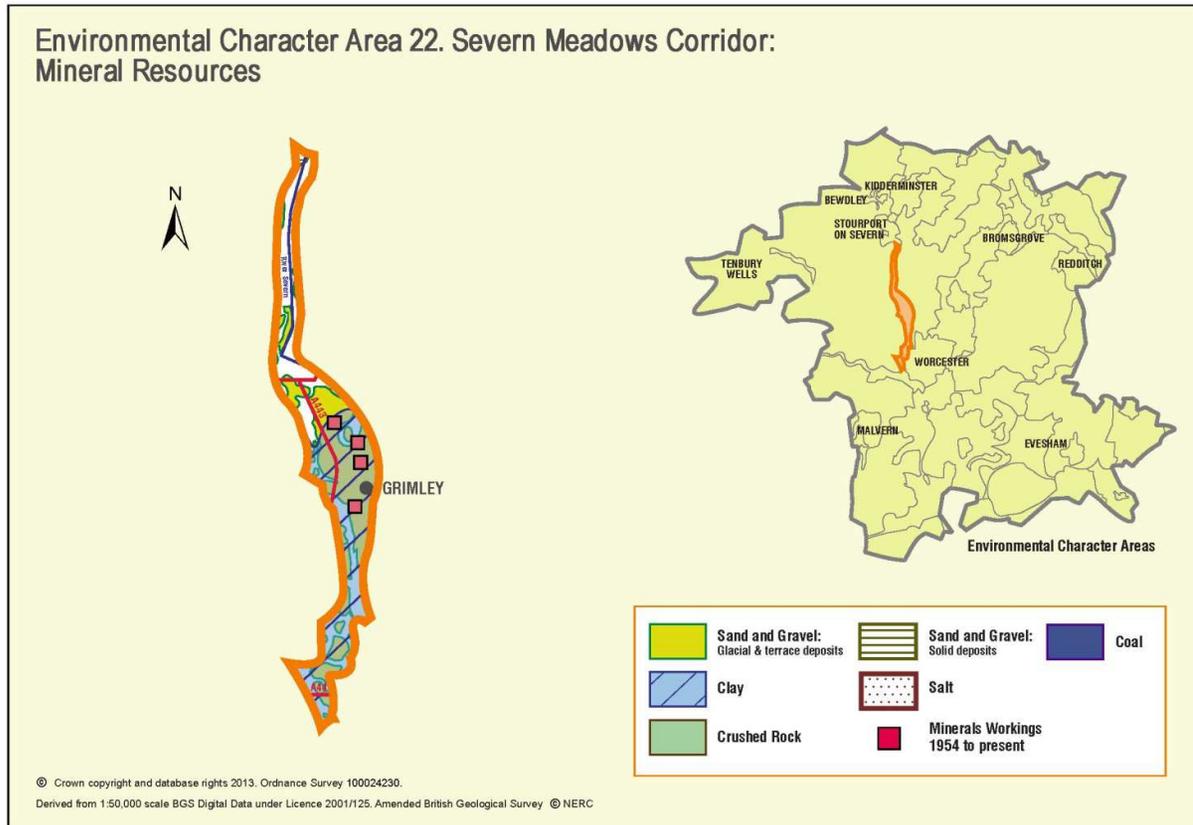


## Appendix 22: Analysis of aggregate resources in ECA 22: Severn Meadows Corridor



### ECA Summary for the Fourth Stage consultation on MLP (Winter 2018):

#### Sand and gravel

There are 13 resource areas identified for sand and gravel in Severn Meadows Corridor ECA:

- Key: 2
- Significant: 2
- Not significant: 4
- Compromised: 9

#### Crushed rock

There are no resource areas identified Severn Meadows Corridor ECA for crushed rock.

#### Non-aggregates

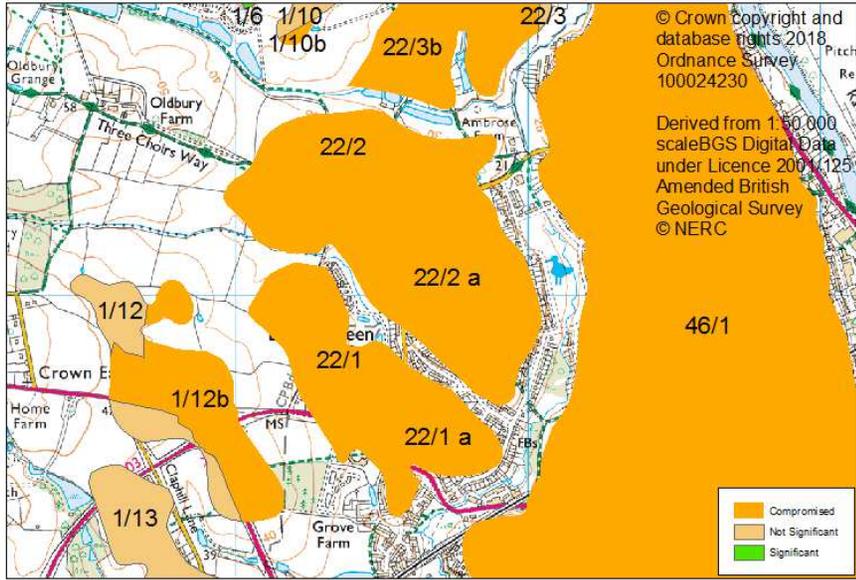
BGS data indicates that there are deposits of clay in this ECA.

## Overview of resource assessment for ECA 22

### Sand and gravel resource areas:

Resource number*	Second Stage Consultation		Third Stage Consultation Summer 2015		Re-assessment of resource for the Third Stage consultation on MLP (Summer 2016)		Fourth Stage Consultation		
	Original estimated resource tonnage (2 tonnes/m <sup>3</sup> )	Significance	Revised estimate of resource tonnage (1.65 tonnes/m <sup>3</sup> )	Significance	Revised estimate of resource tonnage (1.65 tonnes/m <sup>3</sup> )	Significance	New resource number (where resource has been split)	Revised estimate of resource tonnage (1.65 tonnes/m <sup>3</sup> )	Result
22/1	1,064,000	Significant	877,800	Significant	No change required	No change required			Compromised
22/1 a	672,000	Compromised	554,400	Compromised	No change required	No change required	Not reassessed		
22/2	1,400,000	Significant	1,155,000	Significant	No change required	No change required			Compromised
22/2 a	1,848,000	Compromised	1,524,600	Compromised	No change required	No change required	Not reassessed		
22/3	1,624,000	Significant	1,339,800	Significant	No change required	No change required	22/3	138,600	Not significant
							22/3b		Compromised
22/4	6,825,000	Key	5,630,625	Key	4,129,125	Key	22/4	3,700,125	Key
							22/4b		Compromised
							22/4c		Compromised
22/4 a	-	-	-	-	429,000	Not significant	Not reassessed		
22/5	672,000	Significant	554,400	Not significant	No change required	No change required	Not reassessed		
22/6	2,900,000	Key	2,392,500	Key	No change required	No change required	22/6	2,392,500	Key
							22/6b		Compromised
22/7	1,110,000	Significant	915,750	Significant	No change required	No change required		915,750	Significant
22/7a	300,000	Compromised	247,500	Compromised	No change required	No change required	Not reassessed		
22/8	Depth unknown	Not significant	Depth unknown	Not significant	No change required	No change required	Not reassessed		
22/9	896,000	Significant	739,200	Significant	No change required	No change required	22/9	739,200	Significant
							22/9b		Compromised



<b>Overview</b>	
<b>Resource number:</b>	22/1
<b>Resource name:</b>	Grove Farm
<b>Resource area:</b>	19ha
<b>Resource depth:</b>	Estimated 5.6m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 85 SW
<b>National grid ref:</b>	382322, 254781
	
<b>Resource description:</b>	
<b>Resource description:</b>	<p>A 3<sup>rd</sup> terrace (Holt Heath) sand and gravel deposit. The composition of the terrace in this area varies, in many instances very rapidly from sand to gravel. Boreholes indicate wide variation in the thickness of sand and gravel in this terrace. Wills (1938) at St Johns noted 5.2m of sand overlying at least 3m of gravel (total 8.2m). This is the maximum known thickness, elsewhere it fluctuates between 1m and 6m.</p> <p>Estimated resource depth based on average depth calculated as: a) median average of 1m to 6m = 3m, b) Wills record for St Johns: 8.2m = 5.6m</p>
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>	
<b>Commentary:</b>	A small resource area with small scale dispersed development in the central area. The deposit extends to the east under the settlement of Worcester, this is considered as resource area 22/1a.
<b>Crude estimate of resource:</b>	<p>Area: 19 ha x average depth: 5.6m ÷ 2</p> <p>Estimated resource volume: 532,000 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 1,064,000 tonnes</b></p>
<b>Conclusion:</b>	<p>Significant.</p> <p>Consider in defining areas of search.</p>
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>	
<b>Revised estimate of resource:</b>	<p>Area: 19 ha x average depth: 5.6m ÷ 2</p> <p>Estimated resource volume: 532,000 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 877,800 tonnes</b></p>
<b>Conclusion:</b>	Significant.

**Assessment of resource for the Fourth Stage consultation on MLP (August 2018)**

**Commentary:** Screened out due to the following appendix A criterion:

- Allocated site in South Worcestershire Development Plan
- Scheduled Ancient Monument
- Settlement boundary

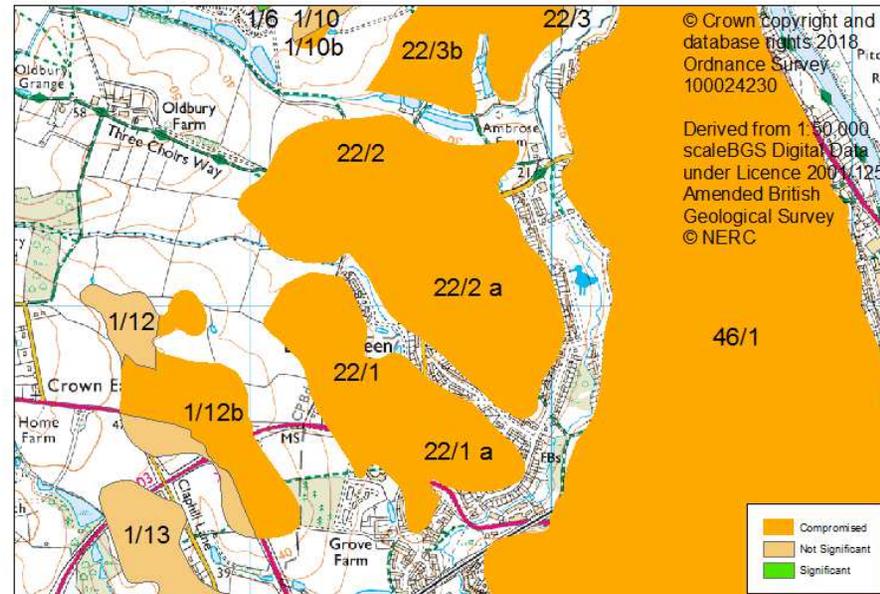
**Conclusion:** Compromised

**Overview**

**Resource number:** 22/1a  
**Resource name:** Grove Farm a)  
**Resource area:** 12ha  
**Resource depth:** Estimated 5.6m

**Location**

**OS sheet reference:** SO 85 SW  
**National grid ref:** 382671, 254518



**Resource description:**

**Resource description:** A 3<sup>rd</sup> terrace (Holt Heath) sand and gravel deposit. The composition of the terrace in this area varies, in many instances very rapidly from sand to gravel. Boreholes indicate wide variation in the thickness of sand and gravel in this terrace. Wills (1938) at St Johns noted 5.2m of sand overlying at least 3m of gravel (total 8.2m). This is the maximum known thickness, elsewhere it fluctuates between 1m and 6m.

Estimated resource depth based on average depth calculated as: a) median average of 1m to 6m = 3m, b) Wills record for St Johns: 8.2m = 5.6m

**Assessment of resource for the second consultation on MLP (Autumn 2013)**

**Commentary:** A small resource area compromised by development. The deposit extends to the west of Worcester, this is considered as resource area 22/1.

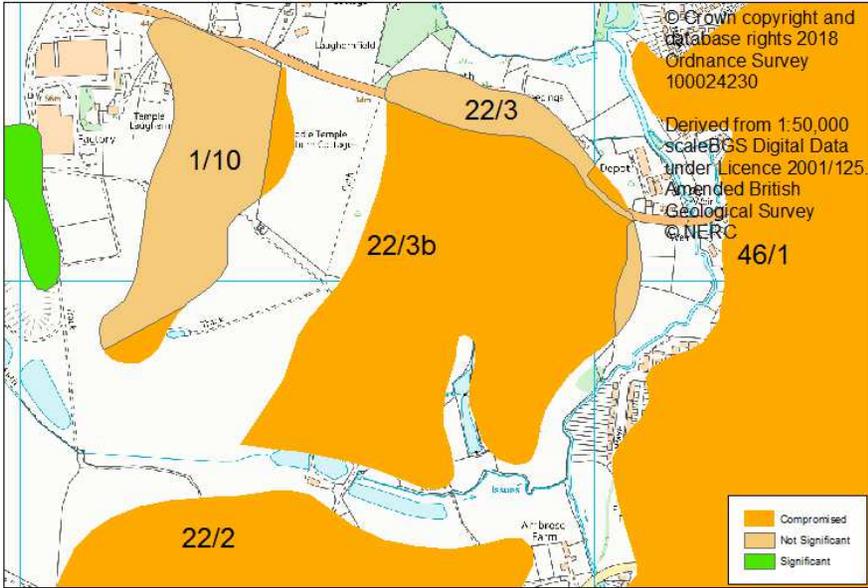
**Crude estimate of** Area: 13 ha x average depth: 5.6m ÷ 2

<b>resource:</b>	Estimated resource volume: 336,000 m <sup>3</sup> <b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 672,000 tonnes</b>
<b>Conclusion:</b>	Compromised by development.
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>	
<b>Revised estimate of resource:</b>	Area: 13 ha x average depth: 5.6m ÷ 2 Estimated resource volume: 336,000 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 554,400 tonnes</b>
<b>Conclusion:</b>	Compromised by development.
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>	
Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation	

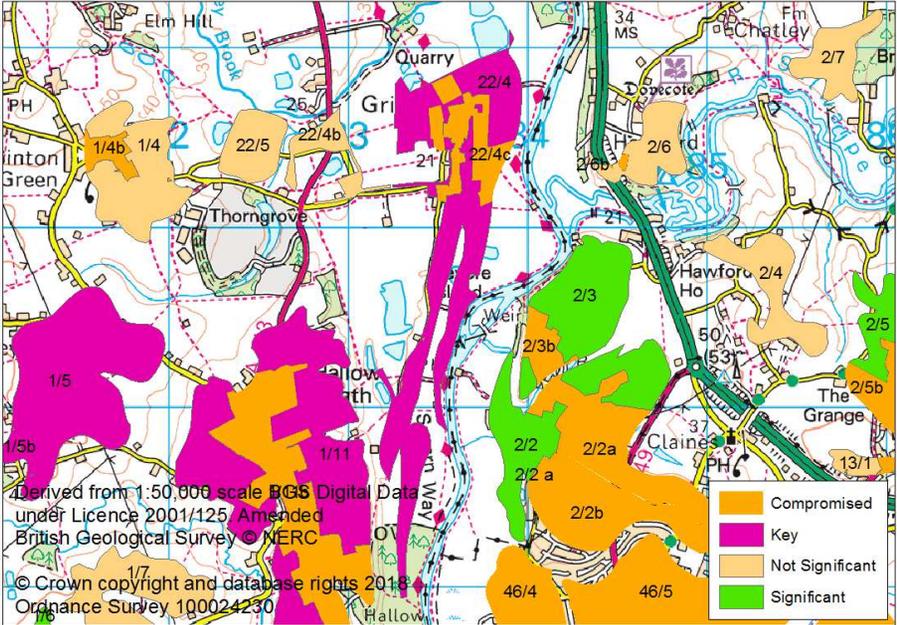
<b>Overview</b>	
<b>Resource number:</b>	22/2
<b>Resource name:</b>	Dines Green
<b>Resource area:</b>	25ha
<b>Resource depth:</b>	Estimated 5.6m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 85 NW
<b>National grid ref:</b>	382384, 255408
<b>Resource description:</b>	
<b>Resource description:</b>	<p>A 3<sup>rd</sup> terrace (Holt Heath) sand and gravel deposit. The composition of the terrace in this area varies, in many instances very rapidly from sand to gravel. Boreholes indicate wide variation in the thickness of sand and gravel in this terrace. Wills (1938) at St Johns noted 5.2m of sand overlying at least 3m of gravel (total 8.2m). This is the maximum known thickness, elsewhere it fluctuates between 1m and 6m.</p> <p>Estimated resource depth based on average depth calculated as: a) median average of 1m to 6m = 3m, b) Wills record for St Johns: 8.2m = 5.6m</p>
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>	
<b>Commentary:</b>	A small resource area with some roads running across the resource area. The deposit extends to the south east under the settlement of Worcester, this is considered as resource area 22/2a.
<b>Crude estimate of resource:</b>	<p>Area: 25 ha x average depth: 5.6m ÷ 2</p> <p>Estimated resource volume: 700,000m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 1,400,000 tonnes</b></p>
<b>Conclusion:</b>	<p>Significant.</p> <p>Consider in defining areas of search.</p>
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>	
<b>Revised estimate of resource:</b>	<p>Area: 25 ha x average depth: 5.6m ÷ 2</p> <p>Estimated resource volume: 700,000m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 1,155,000 tonnes</b></p>
<b>Conclusion:</b>	Significant.



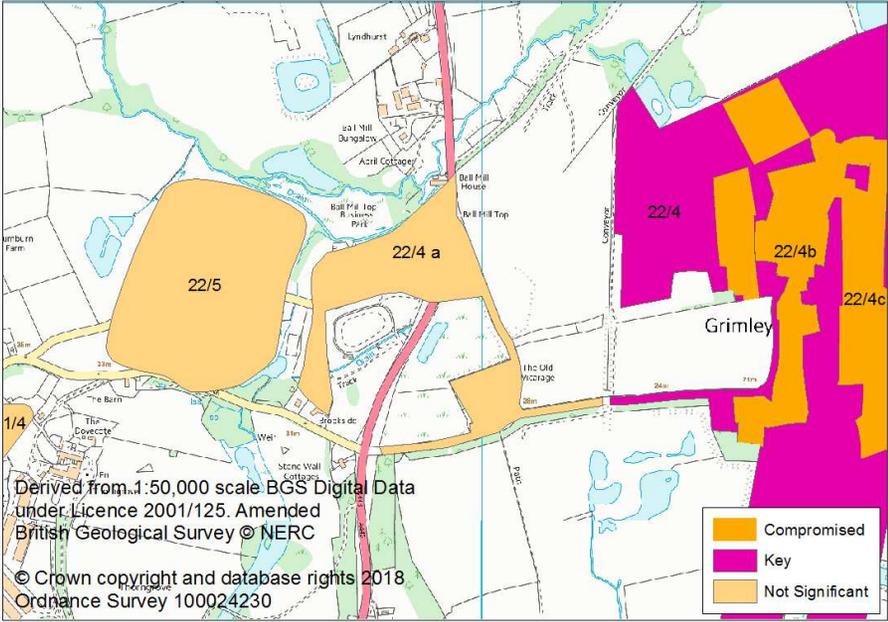
<b>resource:</b>	Estimated resource volume: 924,000m <sup>3</sup> <b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 1,848,000 tonnes</b>
<b>Conclusion:</b>	Significant. Consider in defining areas of search.
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>	
<b>Revised estimate of resource:</b>	Area: 33ha x average depth: 5.6m ÷ 2 Estimated resource volume: 924,000m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 1,524,600 tonnes</b>
<b>Conclusion:</b>	Compromised
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>	
Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation	

<b>Overview</b>	
<b>Resource number:</b>	22/3
<b>Resource name:</b>	Temple Laugherne Farm
<b>Resource area:</b>	29ha
<b>Resource depth:</b>	Estimated 5.6m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 85 NW
<b>National grid ref:</b>	382384, 255408
	
<b>Resource description:</b>	
<b>Resource description:</b>	A 3 <sup>rd</sup> terrace (Holt Heath) sand and gravel deposit. The composition of the terrace in this area varies, in many instances very rapidly from sand to gravel. Boreholes indicate wide variation in the thickness of sand and gravel in this terrace. Wills (1938) at St Johns noted 5.2m of sand overlying at least 3m of gravel (total 8.2m). This is the maximum known thickness, elsewhere it fluctuates between 1m and 6m.  Estimated resource depth based on average depth calculated as: a) median average of 1m to 6m = 3m, b) Wills record for St Johns: 8.2m = 5.6m

<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>			
<b>Commentary:</b>	A small deposit with small scale development on the periphery.		
<b>Crude estimate of resource:</b>	Area: 29 ha x average depth: 5.6m ÷ 2 Estimated resource volume: 812,000 m <sup>3</sup> <b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 1,624,000 tonnes</b>		
<b>Conclusion:</b>	Significant. Consider in defining areas of search.		
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>			
<b>Revised estimate of resource:</b>	Area: 29 ha x average depth: 5.6m ÷ 2 Estimated resource volume: 812,000 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 1,339,800 tonnes</b>		
<b>Conclusion:</b>	Significant.		
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>			
This resource area has been split into areas 22/3 and 22/3b.			
<b>Resource area 22/3</b>		<b>Resource area 22/3b</b>	
<b>Resource area:</b>	3 ha	<b>Commentary:</b>	Screened out due to the following appendix A criterion: - Allocated site in South Worcestershire Development Plan - Settlement boundary
<b>Resource depth:</b>	Estimated 5.6m		
<b>Revised estimate of resource:</b>	Area: 3 ha x average depth: 5.6m ÷ 2 Estimated resource volume: 84,000m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 138,600 tonnes</b>		
<b>Conclusion:</b>	Not significant	<b>Conclusion:</b>	Compromised

<b>Overview</b>	
<b>Resource number:</b>	22/4
<b>Resource name:</b>	Grimley
<b>Resource area:</b>	105 ha 77 ha (revised summer 2016)
<b>Resource depth:</b>	Estimated 6.5m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 85 NW, SO 86 SW
<b>National grid ref:</b>	383439, 260097
	
<b>Resource description:</b>	
<b>Resource description:</b>	<p>1<sup>st</sup> terrace (Powerhouse), 2<sup>nd</sup> terrace (Worcester) and 3<sup>rd</sup> terrace (Holt Heath) sand and gravel. These deposits have been extensively worked.</p> <p>Boreholes submitted with the planning application for Top Barn Farm (1979) showed a range between 2m and 8m of sand and gravel at the northern end of the site. The material averaged 80% sand and 20% gravel.</p> <p>The planning application at Grimley (2005) showed an average of 8.5m of sand and gravel at Church Farm West and an average of 6.5m of sand and gravel at Church Farm South.</p> <p>The planning application for Retreat Farm (1988-1989) showed a maximum depth of 10m of sand and gravel and an average of 6m across the site. The material is described as 80% sand, 20% gravel.</p> <p>Estimated resource depth based on a mean average of: a) boreholes from Top Barn Farm application (median average of 2m to 8m = 5m), b) Church Farm West: 8.5m, c) Church Farm South: 6.5m, d) Retreat Farm application: 6m = 6.5m</p>
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>	
<b>Commentary:</b>	A medium-sized resource area that runs parallel to the River Severn. The resource area is overlain by the village of Grimley to the north. There is a history of working in this deposit. Those areas that have already been worked have not been considered as part of this resource area.
<b>Crude estimate of resource:</b>	<p>Area: 105ha x average depth: 6.5m ÷ 2</p> <p>Estimated resource volume: 3,412,500m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 6,825,000 tonnes</b></p>

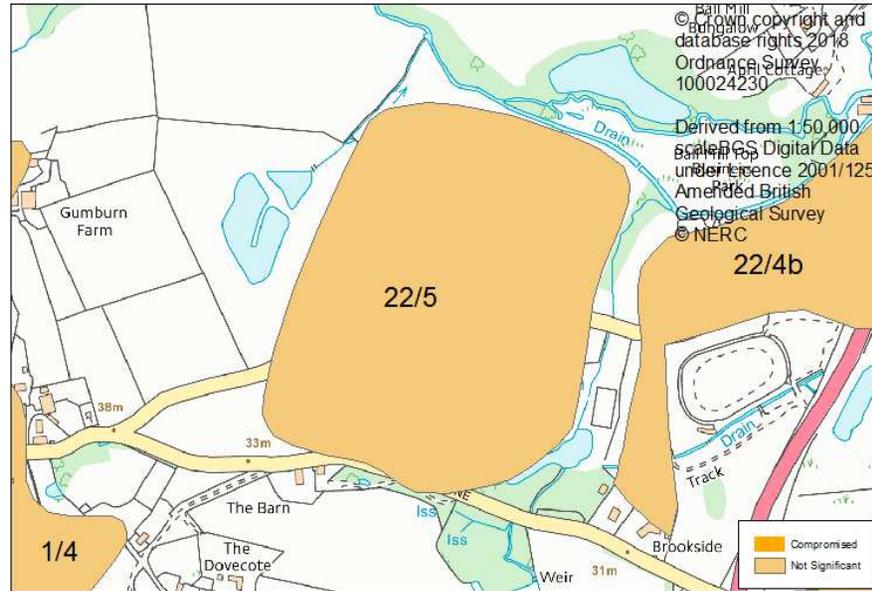
<b>Conclusion:</b>	Significant – key resource. Use to define areas of search.		
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>			
<b>Revised estimate of resource:</b>	Area: 105ha x average depth: 6.5m ÷ 2 Estimated resource volume: 3,412,500m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 5,630,625 tonnes</b>		
<b>Conclusion:</b>	Significant – key resource.		
<b>Re-assessment of resource for the Third Stage consultation on MLP (Summer 2016)</b>			
<b>Commentary:</b>	A medium-sized resource area that runs parallel to the River Severn. The resource area is overlain by the village of Grimley to the north. There is a history of working in this deposit. Those areas that have already been worked have not been considered as part of this resource area. <b>The resource area has been amended to remove areas of mineral workings which had been included in error in previous iterations of this document. The deposit extends to the west of the workings, this is considered as resource area 22/4a.</b>		
<b>Revised estimate of resource:</b>	Area: 77ha x average depth: 6.5m ÷ 2 Estimated resource volume: 2,502,500 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 4,129,125 tonnes</b>		
<b>Conclusion:</b>	Significant – key resource.		
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>			
This resource area has been split into areas 22/4 and 22/4b.			
<b>Resource area 22/4</b>		<b>Resource area 22/4b</b>	
<b>Resource area:</b>	71 ha	<b>Commentary:</b>	Screened out due to the following appendix A criterion: - Conservation Area - Listed Buildings - Settlement boundary
<b>Resource depth:</b>	Estimated 6.5m		
<b>Revised estimate of resource:</b>	Area: 71 ha x average depth: 6.5m ÷ 2 Estimated resource volume: 2,307,500 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 3,807,375 tonnes</b>		
<b>Conclusion:</b>	Key resource	<b>Conclusion:</b>	Compromised
<b>Assessment of resource for the Fourth Stage consultation on MLP (November 2018)</b>			
This resource area has been split into areas 22/4 and 22/4c.			
<b>Resource area 22/4</b>		<b>Resource area 22/4c</b>	
<b>Resource area:</b>	69 ha	<b>Commentary:</b>	Screened out due to the following appendix A criterion: - Scheduled Ancient Monument
<b>Resource depth:</b>	Estimated 6.5m		
<b>Revised estimate of resource:</b>	Area: 69 ha x average depth: 6.5m ÷ 2 Estimated resource volume: 2,242,500 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 3,700,125 tonnes</b>		
<b>Conclusion:</b>	Key resource	<b>Conclusion:</b>	Compromised

<b>Overview</b>	
<b>Resource number:</b>	22/4a
<b>Resource name:</b>	Grimley a
<b>Resource area:</b>	8 ha
<b>Resource depth:</b>	Estimated 6.5m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 85 NW, SO 86 SW
<b>National grid ref:</b>	382881, 260404
	
<b>Resource description:</b>	
<b>Resource description:</b>	<p>1<sup>st</sup> terrace (Powerhouse), 2<sup>nd</sup> terrace (Worcester) and 3<sup>rd</sup> terrace (Holt Heath) sand and gravel. These deposits have been extensively worked.</p> <p>Boreholes submitted with the planning application for Top Barn Farm (1979) showed a range between 2m and 8m of sand and gravel at the northern end of the site. The material averaged 80% sand and 20% gravel.</p> <p>The planning application at Grimley (2005) showed an average of 8.5m of sand and gravel at Church Farm West and an average of 6.5m of sand and gravel at Church Farm South.</p> <p>The planning application for Retreat Farm (1988-1989) showed a maximum depth of 10m of sand and gravel and an average of 6m across the site. The material is described as 80% sand, 20% gravel.</p> <p>Estimated resource depth based on a mean average of: a) boreholes from Top Barn Farm application (median average of 2m to 8m = 5m), b) Church Farm West: 8.5m, c) Church Farm South: 6.5m, d) Retreat Farm application: 6m = 6.5m</p>
<b>Re-assessment of resource for the Third Stage consultation on MLP (Summer 2016)</b>	
<b>Commentary:</b>	A small resource area. There is a history of working in this deposit. <b>This resource area has been defined following changes to resource area 22/4 to remove areas of mineral workings which had been included in error in previous iterations of this document.</b>
<b>Revised estimate of resource:</b>	<p>Area: 8ha x average depth: 6.5m ÷ 2</p> <p>Estimated resource volume: 260,000m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 429,000 tonnes</b></p>
<b>Conclusion:</b>	Not significant

**Assessment of resource for the Fourth Stage consultation on MLP (August 2018)**

Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation

Overview	
Resource number:	22/5
Resource name:	Walton Lane
Resource area:	12 ha
Resource depth:	Estimated 5.6m
Location	
OS sheet reference:	SO 86 SW
National grid ref:	382468, 260454



**Resource description:**

**Resource description:** A 3<sup>rd</sup> terrace (Holt Heath) sand and gravel deposit. The composition of the terrace in this area varies, in many instances very rapidly from sand to gravel. Boreholes indicate wide variation in the thickness of sand and gravel in this terrace. Wills (1938) at St Johns noted 5.2m of sand overlying at least 3m of gravel (total 8.2m). This is the maximum known thickness, elsewhere it fluctuates between 1m and 6m.

Estimated resource depth based on average depth calculated as: a) median average of 1m to 6m = 3m, b) Wills record for St Johns: 8.2m = 5.6m

**Assessment of resource for the second consultation on MLP (Autumn 2013)**

**Commentary:** A small deposit with little built development.

**Crude estimate of resource:** Area: 12 ha x average depth: 5.6m ÷ 2  
 Estimated resource volume: 336,000m<sup>3</sup>  
**Estimated resource tonnage (at 2 t/m<sup>3</sup>): 672,000 tonnes**

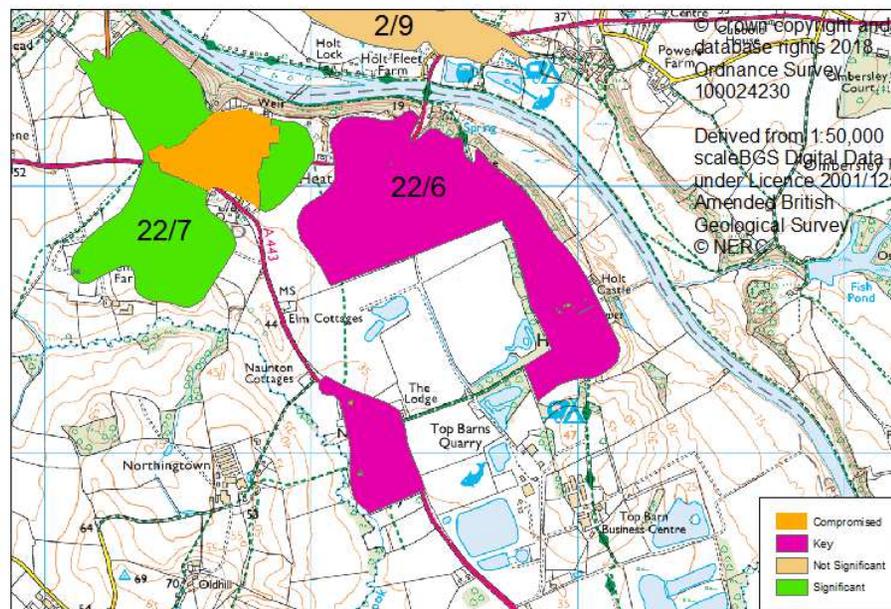
**Conclusion:** Significant.  
 Consider in defining areas of search.

**Assessment of resource for the Third Stage consultation on MLP (Spring 2015)**

**Revised estimate of** Area: 12 ha x average depth: 5.6m ÷ 2

<b>resource:</b>	Estimated resource volume: 336,000m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 554,400 tonnes</b>
<b>Conclusion:</b>	Change to conclusion: Not significant.
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>	
Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation	

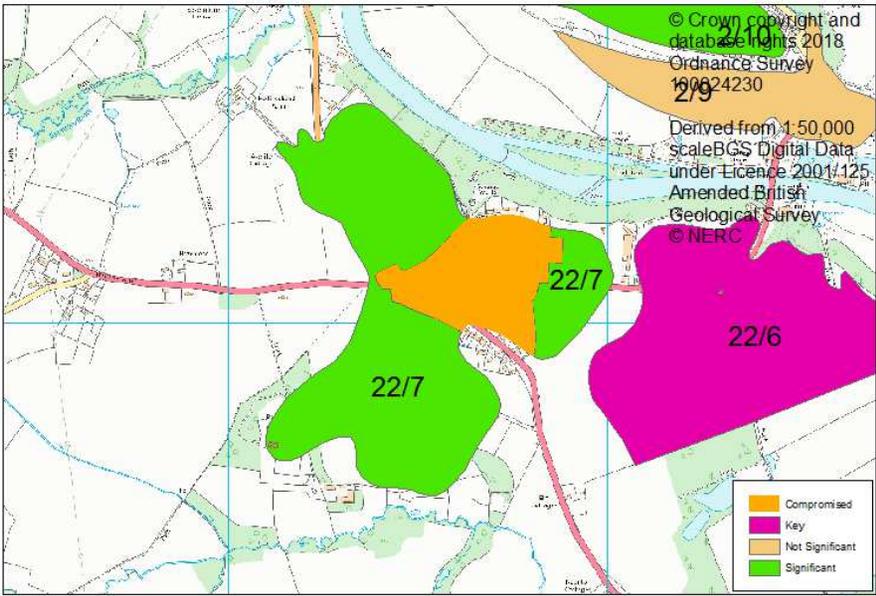
<b>Overview</b>	
<b>Resource number:</b>	22/6
<b>Resource name:</b>	Holt Castle
<b>Resource area:</b>	58ha remaining
<b>Resource depth:</b>	Estimated 5m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 86 SW
<b>National grid ref:</b>	382626, 262375



<b>Resource description:</b>	
<b>Resource description:</b>	3 <sup>rd</sup> terrace (Holt Heath) sand and gravel. This deposit has been extensively worked. Boreholes submitted with the planning application for Top Barn Farm (1979) showed a range between 2m and 8m of sand and gravel at the northern end of the site. The material averaged 80% sand and 20% gravel. (Estimated resource depth based on median depth of 5m)
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>	
<b>Commentary:</b>	A medium-sized resource area with some development on the east and west edges of the resource area. There is a history of working in this deposit. Those areas that have already been worked have not been considered as part of the resource area.
<b>Crude estimate of resource:</b>	Area: 58ha x average depth: 5 m ÷ 2 Estimated resource volume: 1,450,000m <sup>3</sup> <b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 2,900,000 tonnes</b>
<b>Conclusion:</b>	Significant – key resource.

Use to define areas of search.	
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>	
<b>Revised estimate of resource:</b>	Area: 58ha x average depth: 5 m ÷ 2 Estimated resource volume: 1,450,000m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 2,392,500 tonnes</b>
<b>Conclusion:</b>	Significant – key resource.
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>	
This resource area has been split into areas 22/6 and 22/6b.	
<b>Resource area 22/6</b>	
<b>Resource area:</b>	58 ha
<b>Resource depth:</b>	Estimated 5m
<b>Revised estimate of resource:</b>	Area: 58 ha x average depth: 5m ÷ 2 Estimated resource volume: 1,450,000 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 2,392,500 tonnes</b>
<b>Conclusion:</b>	Key resource
<b>Resource area 22/6b</b>	
<b>Commentary:</b>	Screened out due to the following appendix A criterion: - Listed Buildings
<b>Conclusion:</b>	Compromised

<b>Overview</b>	
<b>Resource number:</b>	22/7
<b>Resource name:</b>	Holt Heath
<b>Resource area:</b>	37ha
<b>Resource depth:</b>	3m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 86 SW
<b>National grid ref:</b>	381476, 263029
<b>Resource description:</b>	



<b>Resource description:</b>	A 4 <sup>th</sup> terrace (Kidderminster Station) sand and gravel deposit. The deposit varies in grade from gravel to sand and its thickness is believed to vary from 1m to 5m. (Estimated resource depth based on median depth of 3m)
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>	
<b>Commentary:</b>	A small resource area with small scale dispersed development. The deposit extends under the village of Holt Heath, this section of the deposit is considered as resource area 22/7a.
<b>Crude estimate of resource:</b>	Area: 37 ha x average depth: 3m ÷ 2 Estimated resource volume: 555,000m <sup>3</sup> <b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 1,110,000 tonnes</b>
<b>Conclusion:</b>	Significant. Consider in defining areas of search.
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>	
<b>Revised estimate of resource:</b>	Area: 37 ha x average depth: 3m ÷ 2 Estimated resource volume: 555,000m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 915,750 tonnes</b>
<b>Conclusion:</b>	Significant.
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>	
<b>Resource area:</b>	37 ha
<b>Resource depth:</b>	Estimated 3m
<b>Revised estimate of resource:</b>	Area: 37 ha x average depth: 3m ÷ 2 Estimated resource volume: 555,000m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 915,750 tonnes</b>
<b>Conclusion:</b>	Significant resource

<b>Overview</b>		
<b>Resource number:</b>	22/7a	
<b>Resource name:</b>	Holt Heath	
<b>Resource area:</b>	10ha	
<b>Resource depth:</b>	3m	
<b>Location</b>		
<b>OS sheet reference:</b>	SO 86 SW	
<b>National grid ref:</b>	381667, 263124	
<b>Resource description:</b>		
<b>Resource description:</b>	A 4 <sup>th</sup> terrace (Kidderminster Station) sand and gravel deposit. The deposit varies in grade from gravel to sand and its thickness is believed to vary from 1m to 5m. (Estimated resource depth based on median depth of 3m)	
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>		
<b>Commentary:</b>	A small resource area compromised by the settlement of Holt Heath. The deposit continues to the east and west of this resource area, these sections of the deposit are considered as resource area 22/7.	
<b>Crude estimate of resource:</b>	Area: 10 ha x average depth: 3m ÷ 2 Estimated resource volume: 150,000m <sup>3</sup> <b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 300,000 tonnes</b>	
<b>Conclusion:</b>	Compromised by development.	
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>		
<b>Revised estimate of resource:</b>	Area: 10 ha x average depth: 3m ÷ 2 Estimated resource volume: 150,000m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 247,500 tonnes</b>	
<b>Conclusion:</b>	Compromised by development.	
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>		
Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation		

Overview	
Resource number:	22/8
Resource name:	Shrawley
Resource area:	24ha
Resource depth:	Depth not known
Location	
OS sheet reference:	SO 86 NW, SO 86 SW
National grid ref:	381360, 264831
Resource description:	
Resource description:	A 1 <sup>st</sup> terrace (Powerhouse) sand and gravel deposit. No information on thicknesses in the BGS memoirs.
Assessment of resource for the second consultation on MLP (Autumn 2013)	
Commentary:	A small deposit with little built development.
Crude estimate of resource:	Depth not known.
Conclusion:	Not significant: Small deposit with no information to estimate the resource in this area. Not for consideration in defining areas of search.
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of resource:	No change to the assessment.
Conclusion:	Not significant.
Assessment of resource for the Fourth Stage consultation on MLP (August 2018)	
Not reassessed due to resource not being classified as Key or Significant in the Third Stage Consultation	

<b>Overview</b>		
<b>Resource number:</b>	22/9	
<b>Resource name:</b>	Court Farm	
<b>Resource area:</b>	16ha	
<b>Resource depth:</b>	Estimated 5.6m	
<b>Location</b>		
<b>OS sheet reference:</b>	SO 86 NW, SO 86 SW	
<b>National grid ref:</b>	381120, 264912	
<b>Resource description:</b>		
<b>Resource description:</b>	<p>A 3<sup>rd</sup> terrace (Holt Heath) sand and gravel deposit. The composition of the terrace in this area varies, in many instances very rapidly from sand to gravel. Boreholes indicate wide variation in the thickness of sand and gravel in this terrace. Wills (1938) at St Johns noted 5.2m of sand overlying at least 3m of gravel (total 8.2m). This is the maximum known thickness, elsewhere it fluctuates between 1m and 6m.</p> <p>Estimated resource depth based on average depth calculated as: a) median average of 1m to 6m = 3m, b) Wills record for St Johns: 8.2m = 5.6m</p>	
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>		
<b>Commentary:</b>	A small deposit with little built development.	
<b>Crude estimate of resource:</b>	Area: 16 ha x average depth: 5.6m ÷ 2 Estimated resource volume: 448,000m <sup>3</sup> <b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 896,000 tonnes</b>	
<b>Conclusion:</b>	Significant. Consider in defining areas of search.	
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>		
<b>Revised estimate of resource:</b>	Area: 16 ha x average depth: 5.6m ÷ 2 Estimated resource volume: 448,000m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 739,200 tonnes</b>	
<b>Conclusion:</b>	Significant.	
<b>Assessment of resource for the Fourth Stage consultation on MLP (August 2018)</b>		

This resource area has been split into areas 22/9 and 22/9b.

<b>Resource area 22/9</b>		<b>Resource area 22/9b</b>	
<b>Resource area:</b>	16 ha	<b>Commentary:</b>	Screened out due to the following appendix A criterion: - Ancient Semi-Natural Woodland
<b>Resource depth:</b>	Estimated 5.6m		
<b>Revised estimate of resource:</b>	Area: 16 ha x average depth: 5.6m ÷ 2 Estimated resource volume: 448,000 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 739,200 tonnes</b>		
<b>Conclusion:</b>	Significant resource	<b>Conclusion:</b>	Compromised