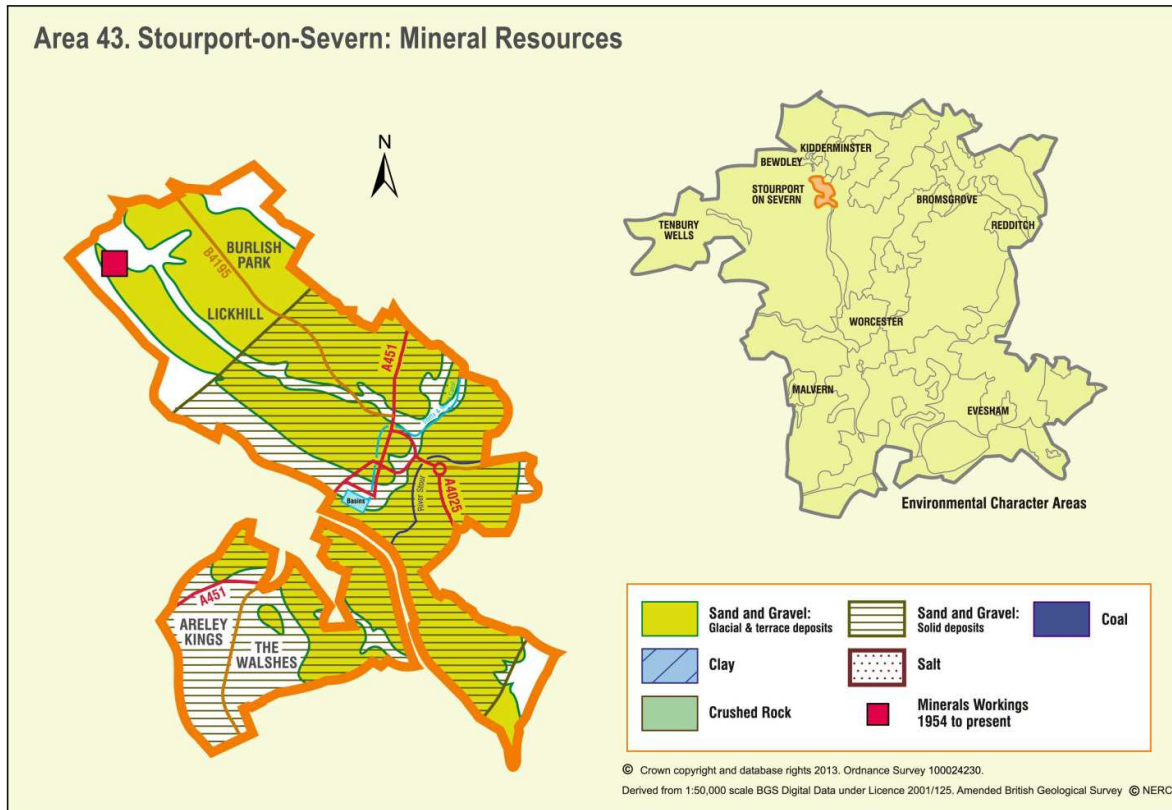


## Appendix 43: Analysis of aggregate resources in Area 43: Stourport-on-Severn



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

#### Sand and gravel

There are 4 resource areas identified for sand and gravel in Stourport Area:

- Compromised: 4

There are also solid sand deposits in this area, these are assessed as resource areas 1/32, 2/22 and 2/23.

#### Crushed rock

There are no resource areas identified in Stourport Area for crushed rock.

#### Non-aggregates

BGS data indicates that there are no non-aggregate mineral deposits in this area.

## Overview of resource assessment for ECA 43

### Sand and gravel resource areas:

Resource number*	Second Stage Consultation		Third Stage Consultation		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	New resource number (where resource has been split)	Revised estimate of resource tonnage (1.65 tonnes/m <sup>3</sup> )	Result
43/1	854,000	Compromised	704,550	Compromised	Not reassessed		
43/2	1,000,000	Significant	825,000	Significant			Compromised
43/2a	5,600,000	Compromised	4,620,000	Compromised	Not reassessed		
43/3	448,000	Compromised	369,600	Compromised			

<b>Overview</b>	
<b>Resource number:</b>	43/1
<b>Resource name:</b>	Areley Kings
<b>Resource area:</b>	14ha
<b>Resource depth:</b>	Estimated 6.1m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 87 SW
<b>National grid ref:</b>	380268, 270763
<b>Resource description:</b>	
<b>Resource description:</b>	Resource area 43/1 is 3 <sup>rd</sup> terrace (Holt Heath) sand and gravel. The 3 <sup>rd</sup> terrace varies between 15' (4.5m) and 25' (7.6m) in the Stourport area. Estimated resource depth based on mid-point of 3 <sup>rd</sup> terrace depths (4.5m to 7.6m): 6.1m  This resource area is underlain by solid sand deposits (assessed as resource area 1/33).
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>	
<b>Commentary:</b>	A small resource area overlain by the settlement of Areley Kings.
<b>Crude estimate of resource:</b>	Area: 14 ha x average depth: 6.1 m ÷ 2 Estimated resource volume: 427,000 m <sup>3</sup> <b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 854,000 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: 14 ha x average depth: 6.1 m ÷ 2 Estimated resource volume: 427,000 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 704,550 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>	43/2
<b>Resource name:</b>	Stourport South
<b>Resource area:</b>	10ha
<b>Resource depth:</b>	Estimated 10m
<b>Location</b>	
<b>OS sheet reference:</b>	SO 77 SE, SO 87 SW
<b>National grid ref:</b>	380705, 271806
<b>Resource description:</b>	
<b>Resource description:</b>	<p>Resource area 43/2 is 2<sup>nd</sup> terrace (Worcester) sand and gravel. The deposit was worked at Lickhill Quarry (to the north west of this resource area), the application stated a maximum depth of 10m of sand and gravel.</p> <p>Estimated resource depth based on information provided with Lickhill Quarry application: 10m</p> <p>This resource area is underlain by solid sand deposits (assessed as resource area 2/23)</p>
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>	
<b>Commentary:</b>	A small resource area in the centre of Stourport. The deposit continues under the urban area of Stourport (assessed as resource area 43/2a) and continues to the west where it has been worked extensively at Lickhill Quarry.
<b>Crude estimate of resource:</b>	<p>Area: 10 ha x average depth: 10 m ÷ 2</p> <p>Estimated resource volume: 500,000 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 1,000,000 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: 10 ha x average depth: 10 m ÷ 2</p> <p>Estimated resource volume: 500,000 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 825,000 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:  
 - Settlement boundary

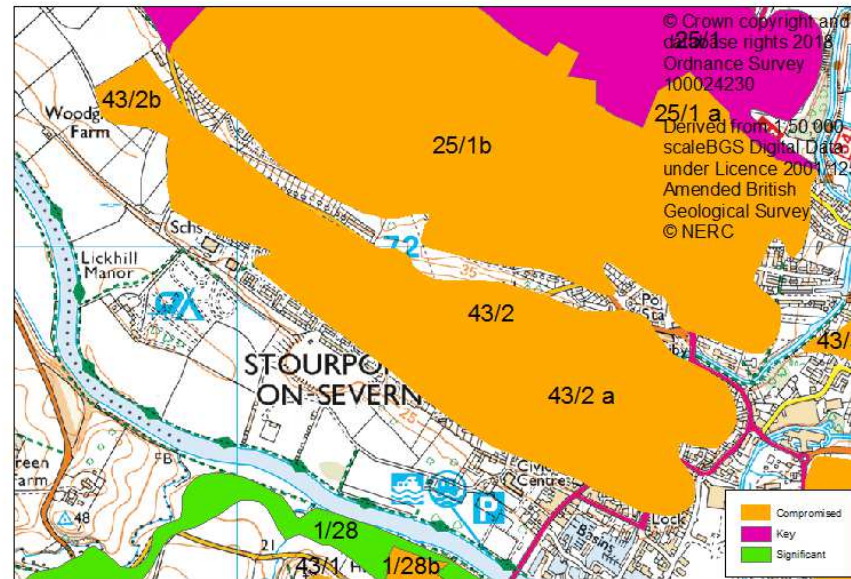
**Conclusion:** Compromised

**Overview**

**Resource number:** 43/2 a)  
**Resource name:** Stourport South a)  
**Resource area:** 56ha  
**Resource depth:** Estimated 10m

**Location**

**OS sheet reference:** SO 77 SE, SO 87 SW  
**National grid ref:** 380705, 271806



**Resource description:**

**Resource description:** Resource area 43/2a is 2<sup>nd</sup> terrace (Worcester) sand and gravel. The deposit was worked at Lickhill Quarry (to the west of this resource area), the application stated a maximum depth of 10m of sand and gravel.

Estimated resource depth based on information provided with Lickhill Quarry application: 10m

This resource area is underlain by solid sand deposits (assessed as resource area 2/23)

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

**Commentary:** A medium-sized resource area overlain by the settlement of Stourport. The deposit continues to the north (assessed as resource area 43/2) and continues to the west where it has been worked extensively at Lickhill Quarry.

**Crude estimate of** Area: 56 ha x average depth: 10 m ÷ 2

<b>resource:</b>	Estimated resource volume: 2,800,000 m <sup>3</sup> <b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 5,600,000 tonnes</b>
<b>Conclusion:</b>	Compromised by development with less than 10ha of the deposit remaining.
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>	
<b>Revised estimate of resource:</b>	Area: 56 ha x average depth: 10 m ÷ 2 Estimated resource volume: 2,800,000 m <sup>3</sup> <b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 4,620,000 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>	43/3	
<b>Resource name:</b>	Upper Mitton Bridge	
<b>Resource area:</b>	14ha	
<b>Resource depth:</b>	Estimated 3.2m	
<b>Location</b>		
<b>OS sheet reference:</b>	SO 87 SW	
<b>National grid ref:</b>	381948, 271814	
<b>Resource description:</b>		
<b>Resource description:</b>	<p>Resource area 43/3 is 1<sup>st</sup> terrace (Powerhouse) sand and gravel. The BGS memoirs record that 1<sup>st</sup> terrace varies in depth between 6' (1.8m), 14'8" (4.5m) in the Stourport area.</p> <p>Estimated resource depth based on mid-point of 1<sup>st</sup> terrace depth (1.8m to 4.5m): 3.2m</p> <p>This resource area is underlain by solid sand deposits (assessed as resource area 2/22 and 2/23)</p>	
<b>Assessment of resource for the second consultation on MLP (Autumn 2013)</b>		
<b>Commentary:</b>	A small resource area which is largely overlain by the settlement of Stourport on Severn.	
<b>Crude estimate of resource:</b>	<p>Area: 14 ha x average depth: 3.2 m ÷ 2</p> <p>Estimated resource volume: 224,000 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 2 t/m<sup>3</sup>): 448,000 tonnes</b></p>	
<b>Conclusion:</b>	Compromised by development with less than 10ha of the deposit remaining.	
<b>Assessment of resource for the Third Stage consultation on MLP (Spring 2015)</b>		
<b>Revised estimate of resource:</b>	<p>Area: 14 ha x average depth: 3.2 m ÷ 2</p> <p>Estimated resource volume: 224,000 m<sup>3</sup></p> <p><b>Estimated resource tonnage (at 1.65 t/m<sup>3</sup>): 369,600 tonnes</b></p>	
<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		

