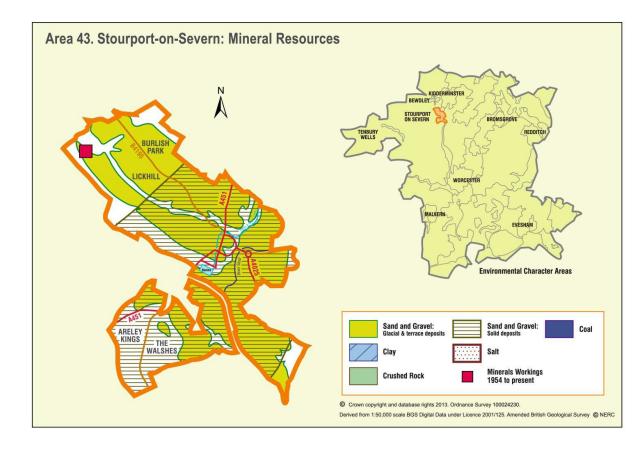
### Appendix 43: Analysis of aggregate resources in Area 43: Stourport-on-Severn



# 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	Second Stage Consultation		Third Stage Consultation		Fourth Stage Consultation		
number*	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 received		
43/3	448,000	Compromised	369,600	Compromised	Not reassessed		

Overview			
Resource number:	43/1 © Crown copyright and		
Resource name:	Areley Kings		
Resource area:	14ha 1/28 Pont00024230		
Resource depth:	Estimated 6.1m		
Location	1/28b scaleBGS Digital Pate under Licence 2007 125		
OS sheet reference:	SO 87 SW		
National grid ref:	380268, 270763		
Resource description:			
Resource description:	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).		
Assessment of resourc	e for the second consultation on MLP (Autumn 2013)		
Commentary:	A small resource area overlain by the settlement of Areley Kings.		
Crude estimate of	Area: 14 ha x average depth: 6.1 m ÷ 2		
resource:	Estimated resource volume: 427,000 m <sup>3</sup>		
	Estimated resource tonnage (at 2 t/m <sup>3</sup> ): 854,000 tonnes		
Conclusion:	Compromised by development.		
	e for the Third Stage consultation on MLP (Spring 2015)		
Revised estimate of	Area: 14 ha x average depth: 6.1 m ÷ 2		
resource:	Estimated resource volume: 427,000 m <sup>3</sup>		
	Estimated resource tonnage (at 1.65 t/m <sup>3</sup> ): 704,550 tonnes		
Conclusion:	Compromised by development.		
Assessment of resourc	e for the Fourth Stage consultation on MLP (August 2018)		
Not reassessed due to re	esource not being classified as Key or Significant in the Third Stage Consultation		

Overview		
Resource number:	43/2	Crown copyright and
Resource name:	Stourport South	dådaøåse rights 2018 Ordnance Survey
Resource area:	10ha	100024230
Resource depth:	Estimated 10m	Woodg 25/1 a Derived from 150,000
Location		25/1b scaleBGS Digital Data
OS sheet reference: National grid ref:	SO 77 SE, SO 87 SW 380705, 271806	Schs Lickhill Marior 43/2 STOURP6, ON=SEVERN, 43/2 a
Resource description:		48 1/28 Bucct General States S
Resource description:	Resource area 43/2 is 2	2 <sup>nd</sup> terrace (Worcester) sand and gravel. The deposit was worked at Lickhill Quarry (to
•		source area), the application stated a maximum depth of 10m of sand and gravel.
	Estimated resource don	oth based on information provided with Lickhill Quarry application: 10m
1	Estimated resource dep	
Assessment of resource	This resource area is ur	nderlain by solid sand deposits (assessed as resource area 2/23)
	This resource area is ur	nderlain by solid sand deposits (assessed as resource area 2/23) Iltation on MLP (Autumn 2013)
Assessment of resource Commentary:	This resource area is ur this resource area is ur for the second consu A small resource area in	nderlain by solid sand deposits (assessed as resource area 2/23)
	This resource area is ur <b>e for the second consu</b> A small resource area in (assessed as resource	nderlain by solid sand deposits (assessed as resource area 2/23) Iltation on MLP (Autumn 2013) In the centre of Stourport. The deposit continues under the urban area of Stourport
	This resource area is un the second consu A small resource area in (assessed as resource Quarry. Area: 10 ha x average of	Inderlain by solid sand deposits (assessed as resource area 2/23) In the centre of Stourport. The deposit continues under the urban area of Stourport area 43/2a) and continues to the west where it has been worked extensively at Lickhill depth: 10 m ÷ 2
Commentary:	This resource area is un this resource area is un the second consu A small resource area in (assessed as resource Quarry.	Inderlain by solid sand deposits (assessed as resource area 2/23) In the centre of Stourport. The deposit continues under the urban area of Stourport area 43/2a) and continues to the west where it has been worked extensively at Lickhill depth: 10 m ÷ 2
Commentary: Crude estimate of	This resource area is ur this resource area is ur the for the second consu A small resource area in (assessed as resource Quarry. Area: 10 ha x average of Estimated resource volu	Inderlain by solid sand deposits (assessed as resource area 2/23) In the centre of Stourport. The deposit continues under the urban area of Stourport area 43/2a) and continues to the west where it has been worked extensively at Lickhill depth: 10 m ÷ 2
Commentary: Crude estimate of	This resource area is ur this resource area is ur the for the second consu A small resource area in (assessed as resource Quarry. Area: 10 ha x average of Estimated resource volu	Inderlain by solid sand deposits (assessed as resource area 2/23) Itation on MLP (Autumn 2013) In the centre of Stourport. The deposit continues under the urban area of Stourport area 43/2a) and continues to the west where it has been worked extensively at Lickhill depth: 10 m $\div$ 2 ume: 500,000 m <sup>3</sup>
Commentary: Crude estimate of resource: Conclusion:	This resource area is ur <b>a for the second consu</b> A small resource area in (assessed as resource Quarry. Area: 10 ha x average of Estimated resource volu <b>Estimated resource to</b> Significant. Consider in defining are	nderlain by solid sand deposits (assessed as resource area 2/23) Itation on MLP (Autumn 2013) In the centre of Stourport. The deposit continues under the urban area of Stourport area 43/2a) and continues to the west where it has been worked extensively at Lickhill depth: 10 m ÷ 2 ume: 500,000 m <sup>3</sup> onnage (at 2 t/m <sup>3</sup> ): 1,000,000 tonnes eas of search.
Commentary: Crude estimate of resource: Conclusion:	This resource area is ur <b>a for the second consu</b> A small resource area in (assessed as resource Quarry. Area: 10 ha x average of Estimated resource volu <b>Estimated resource to</b> Significant. Consider in defining are	nderlain by solid sand deposits (assessed as resource area 2/23) Itation on MLP (Autumn 2013) In the centre of Stourport. The deposit continues under the urban area of Stourport area 43/2a) and continues to the west where it has been worked extensively at Lickhill depth: 10 m ÷ 2 ume: 500,000 m <sup>3</sup> onnage (at 2 t/m <sup>3</sup> ): 1,000,000 tonnes eas of search.
Commentary: Crude estimate of resource: Conclusion:	This resource area is ur <b>a for the second consu</b> A small resource area in (assessed as resource) Quarry. Area: 10 ha x average of Estimated resource volu <b>Estimated resource to</b> Significant. Consider in defining area <b>c for the Third Stage co</b> Area: 10 ha x average of Area: 10 ha x average of Area x average of Area x average of Area x avera	nderlain by solid sand deposits (assessed as resource area 2/23) <b>Itation on MLP (Autumn 2013)</b> In the centre of Stourport. The deposit continues under the urban area of Stourport area 43/2a) and continues to the west where it has been worked extensively at Lickhill depth: 10 m ÷ 2 ume: 500,000 m <sup>3</sup> onnage (at 2 t/m <sup>3</sup> ): 1,000,000 tonnes eas of search. onsultation on MLP (Spring 2015) depth: 10 m ÷ 2
Commentary: Crude estimate of resource: Conclusion: Assessment of resource	This resource area is ur <b>ce for the second consu</b> A small resource area in (assessed as resource) Quarry. Area: 10 ha x average of Estimated resource volu <b>Estimated resource to</b> Significant. Consider in defining area <b>ce for the Third Stage co</b>	nderlain by solid sand deposits (assessed as resource area 2/23) <b>Itation on MLP (Autumn 2013)</b> In the centre of Stourport. The deposit continues under the urban area of Stourport area 43/2a) and continues to the west where it has been worked extensively at Lickhill depth: 10 m ÷ 2 ume: 500,000 m <sup>3</sup> onnage (at 2 t/m <sup>3</sup> ): 1,000,000 tonnes eas of search. onsultation on MLP (Spring 2015) depth: 10 m ÷ 2
Commentary: Crude estimate of resource: Conclusion: Assessment of resource Revised estimate of	This resource area is ur <b>a for the second consu</b> A small resource area in (assessed as resource) Quarry. Area: 10 ha x average of Estimated resource volu <b>Estimated resource to</b> Significant. Consider in defining area <b>a for the Third Stage co</b> Area: 10 ha x average of Estimated resource vol	Inderlain by solid sand deposits (assessed as resource area 2/23) Itation on MLP (Autumn 2013) In the centre of Stourport. The deposit continues under the urban area of Stourport area 43/2a) and continues to the west where it has been worked extensively at Lickhill depth: 10 m ÷ 2 ume: 500,000 m <sup>3</sup> onnage (at 2 t/m <sup>3</sup> ): 1,000,000 tonnes eas of search. onsultation on MLP (Spring 2015) depth: 10 m ÷ 2

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	

Resource name: Stourport South a)   Resource area: 56ha   Resource depth: Estimated 10m   Location OS sheet reference:   S0 77 SE, S0 87 SW 380705, 271806   National grid ref: 380705, 271806   Resource description: 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 a/3/2) and continues to the west where it has been worked extensively at Lickhill Quarry.	Overview			
Resource area: 56ha   Resource depth: Estimated 10m   Location 0000000   OS sheet reference: S0 77 SE, S0 87 SW   National grid ref: S0 705, 271806   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 43/2) and continues to the west where it has been worked extensively at Lickhill Quarry.	Resource number:	43/2 a)	© Crown copyright and B	
Resource depth: Estimated 10m   Location Sheet reference: SO 77 SE, SO 87 SW   National grid ref: 380705, 271806   Resource description: 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 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 43/2) and continues to the west where it has been worked extensively at Lickhill Quarry.	Resource name:	• •	Ordnance Survey	
Resource depth: Estimated 10m   Location Sheet reference: S0 77 SE, S0 87 SW   National grid ref: 380705, 271806   With the second construction of the second construction on the section of the second construction of	Resource area:		43/2b	
Location OS sheet reference: SO 77 SE, SO 87 SW   National grid ref: 380705, 271806 Amende District Sector Structure   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   Assessment of resource for the second consultation on MLP (Autumn 2013) Commentary:   A medium-sized resource area 43/2) and continues to the west where it has been worked extensively at Lickhill Quarry.	•	Estimated 10m	Dérived from 1/20,000	
National grid ref: 380705, 271806   Resource description: 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 (Autum 2013)   Commentary: A medium-sized resource area 43/2) and continues to the west where it has been worked extensively at Lickhill Quarry.			under Licence 2001/125.	
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 43/2) and continues to the west where it has been worked extensively at Lickhill Quarry.			Lickhill Harror 43/2 STOURPO, ON-SEVERN, 43/2 a Componied arm B b 1/28 Cive Cancer B b componied Weiner	
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.	Resource description:			
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.	Resource description:	the west of this resource	e area), the application stated a maximum depth of 10m of sand and gravel.	
<b>Commentary:</b> 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.	Accessment of recourse			
(assessed as resource area 43/2) and continues to the west where it has been worked extensively at Lickhill Quarry.				
	Commentary:	(assessed as resource a		
$\neg uue estimate of \neg to ta x average ueptit. To tit -2$	Crude estimate of	Area: 56 ha x average depth: 10 m ÷ 2		

resource:	Estimated resource volume: 2,800,000 m <sup>3</sup>	
	Estimated resource tonnage (at 2 t/m <sup>3</sup> ): 5,600,000 tonnes	
Conclusion:	Compromised by development with less than 10ha of the deposit remaining.	
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)		
Revised estimate of	Area: 56 ha x average depth: 10 m ÷ 2	
resource:	Estimated resource volume: 2,800,000 m <sup>3</sup>	
	Estimated resource tonnage (at 1.65 t/m <sup>3</sup> ): 4,620,000 tonnes	
Conclusion:	Compromised by development.	
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:	43/3 © Crown copyright and		
Resource name:	Upper Mitton Bridge 25/1b 25/1b 27/14 2/14 Ordnance Survey		
Resource area:	14ha 100024230 Tm		
Resource depth:	Estimated 3.2m		
Location	sealeBGS Digital Data of under Licence 2001/125		
OS sheet reference:	SO 87 SW		
National grid ref:	381948, 271814		
Resource description:			
Resource description:	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. Estimated resource depth based on mid-point of 1 <sup>st</sup> terrace depth (1.8m to 4.5m): 3.2m		
	This resource area is underlain by solid sand deposits (assessed as resource area 2/22 and 2/23)		
	e for the second consultation on MLP (Autumn 2013)		
Commentary:	A small resource area which is largely overlain by the settlement of Stourport on Severn.		
Crude estimate of	Area: 14 ha x average depth: 3.2 m ÷ 2		
resource:	Estimated resource volume: 224,000 m <sup>3</sup>		
Canaluaian	Estimated resource tonnage (at 2 t/m <sup>3</sup> ): 448,000 tonnes		
Conclusion:	Compromised by development with less than 10ha of the deposit remaining.		
	e for the Third Stage consultation on MLP (Spring 2015)		
Revised estimate of	Area: 14 ha x average depth: $3.2 \text{ m} \div 2$		
resource:	Estimated resource volume: 224,000 m <sup>3</sup>		
Conclusion:	Estimated resource tonnage (at 1.65 t/m <sup>3</sup> ): 369,600 tonnes		
Conclusion:   Compromised by development.     Assessment of resource for the Fourth Stage consultation on MLP (August 2018)			
not reassessed due to re	source not being classified as Key or Significant in the Third Stage Consultation		