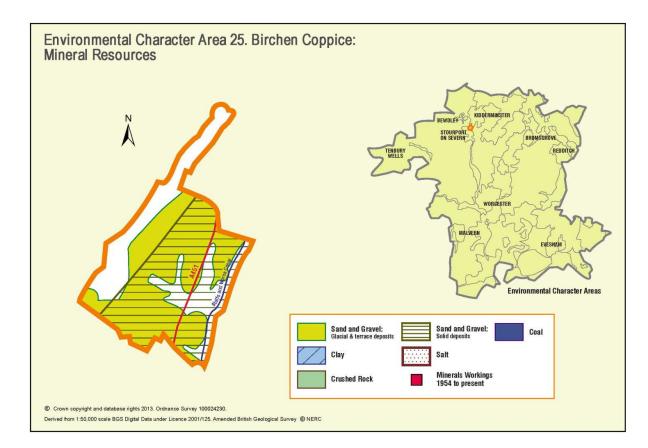
### Appendix 25: Analysis of aggregate resources in ECA 25: Birchen Coppice



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

#### Sand and gravel

There are 6 resource areas identified for sand and gravel in Birchen Coppice ECA:

- Key: 1
- Compromised: 5

There are additional resource areas for solid sand and gravel which cross into this ECA, but are assessed as part of ECA 2 (Severn Valley North).

#### Crushed rock

There are no resource areas identified in Birchen Coppice ECA for crushed rock.

#### Non-aggregates

BGS data indicates that there are no non-aggregate mineral deposits in Birchen Coppice ECA.

## Overview of resource assessment for ECA 25

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
25/1	6,976,000	Key	5,755,200	Key	25/1 25/1	5,332,800	Key
		-		-	25/1b		Compromised
25/1 a	7,808,000	Compromised	6,441,600	Compromised	Not reassessed		
25/2	2,028,000	Key	1,673,100	Significant			Compromised
25/2 a	3,016,000	Compromised	2,488,200	Compromised	Not reasoned		
25/2 b	1,040,000	Compromised	858,000	Compromised	Not reassessed		

Overview		
Resource number:	25/1 Ordep rayes Of Grown copyright and	
Resource name:	South of Birchen	
	Coppice	
Resource area:	109ha Derived from 1-50 000	
Resource depth:	Estimated 6.4m	
Location	Amended British	
OS sheet reference:	SO 77 SE, SO 87 SW	
National grid ref:	381363, 273416	
Resource description: Resource description:	A 3 <sup>rd</sup> terrace (Holt Heath) sand and gravel deposit. The western end of the deposit has been worked at	
Resource description.	Blackstone and Brant Farm Quarries. The Birmingham Sand and Gravel (1967) application for Brant Farm Quarry included the results of trial holes which revealed depths of up to 12' (3.7m) of sand and gravel. The Roger Constant & Co Ltd (1997) application for Blackstone Quarry stated a maximum working depth of 9m.	
	The deposit is underlain by solid sand deposits which are assessed separately as resource areas 2/22, 2/23 and 2/25.	3
	(Estimated resource depth based on average of: a) Brant Farm application: 3.7m, b) Blackstone Quarry application: 9m = 6.4m)	
	e for the second consultation on MLP (Autumn 2013)	
Commentary:	A medium-sized resource area that consists of 3 separate parts. The western end of the deposit has been	
	worked, this is not included as part of the resource area. Much of the rest of the deposit is overlain by the	
	settlements of Stourport and Kidderminster; these sections of the deposit are assessed separately as resource areas 25/1a, 25/2a and 25/2b. The deposit continues to the north of Birchen Coppice and this is	
	considered as a separate resource areas (25/2) as it is separated from this resource area by over 500m.	
Crude estimate of	Area: 109 ha x average depth: $6.4 \text{ m} \div 2$	
resource:	Estimated resource volume: 3,488,000 m <sup>3</sup>	
	Estimated resource tonnage (at 2 t/m <sup>3</sup> ): 6,976,000 tonnes	
Conclusion:	Significant – key resource.	

	Use to define areas of search.				
Assessment of res	Assessment of resource for the Third Stage consultation on MLP (Spring 2015)				
Revised estimate	of Area: 109 ha x average depth: 6.4 m	n ÷ 2			
resource:	Estimated resource volume: 3,488,00	00 m <sup>3</sup>			
	Estimated resource tonnage (at 1.		00 tonnes		
Conclusion:	Significant – key resource.				
Assessment of res	source for the Fourth Stage consultation	on MLP (August	: 2018)		
This resource area	has been split into areas 25/1 and 25/1b.				
	Resource area 25/1	Resource area 25/1b			
Resource area:	101 ha	Commentary:			
Resource depth:	Estimated 6.4m		<ul> <li>Ancient Semi-Natural Woodland</li> </ul>		
Revised estimate	Area: 101 ha x average depth: 6.4m ÷ 2		- Settlement boundary		
of resource: Estimated resource volume: 3,232,000 m <sup>3</sup>			- Source Protection Zone		
	Estimated resource tonnage (at 1.65 t/m <sup>3</sup> ): 5,332,800 tonnes				
Conclusion:	Key resource	Conclusion:	Compromised		

Overview		
Resource number:	25/1a	24/16 database rights 20/18
Resource name:	South of Birchen	1/2b Print P
	Coppice a)	Ribbe ad
Resource area:	122ha	1/2 Derived from 1.50,000
Resource depth:	Estimated 6.4m	25/1 scateBGS Digital Data
Location		Arhended British STOL
OS sheet reference: National grid ref:	SO 77 SE, SO 87 SW 381363, 273416	Neveral View View View View View View View View
Resource description:		
Resource description:	A 3 <sup>rd</sup> terrace (Holt Heath) sand and gravel deposit. The western end of the deposit has been worked at Blackstone and Brant Farm Quarries. The Birmingham Sand and Gravel (1967) application for Brant Farm Quarry included the results of trial holes which revealed depths of up to 12' (3.7m) of sand and gravel. The Roger Constant & Co Ltd (1997) application for Blackstone Quarry stated a maximum working depth of 9m. The deposit is underlain by solid sand deposits which are assessed separately as resource areas 2/22, 2/23 and 2/25. (Estimated resource depth based on average of: a) Brant Farm application: 3.7m, b) Blackstone Quarry	
	application: 9m = 6.4m)	
		Itation on MLP (Autumn 2013)
Commentary:		verlain by the settlement of Stourport. Other sections of the deposit are assessed
Owned a set for the f		areas 25/1, 25/2, 25/2a and 25/2b.
Crude estimate of	Area: 122 ha x average depth: 6.4 m ÷ 2 Estimated resource volume: 3,904,000 m <sup>3</sup>	
resource:	Estimated resource volu	ume: 3,904,000 m° nnage (at 2 t/m <sup>3</sup> ): 7,808,000 tonnes
Conclusion:	Compromised by develo	
		nsultation on MLP (Spring 2015)
Revised estimate of	Area: 122 ha x average	
resource:	Estimated resource volu	
		· ·

	Estimated resource tonnage (at 1.65 t/m <sup>3</sup> ): 6,441,600 tonnes		
Conclusion:	Compromised by development.		
Assessment of r	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:	25/2 Reg 83	Sitton Farm
Resource name:	North of Birchen	As 38/3 Oxination Survey
	Coppice	2002 230 38/1
Resource area:	39ha	Denved framation 000
Resource depth:	Estimated 5.2m	stater S Digital Data to
Location	Gorat Covert	Athended Brutsh
OS sheet reference:	SO 87 SW	CONERC SECONERC SECONERC
National grid ref:	382522, 274518	Birchen Store 25/2 a 25/2 a 25/2 a 25/2 a 25/2 a 25/2 a 21/3 a 2/13 a
Resource description:		
Resource description:	A 3 <sup>rd</sup> terrace (Holt Heath) sand and gravel deposit. Vales pit, south of the West Midland Sugar Company's works, exposed 15' (4.6m) of interbedded sand and gravel. Sections in Lea's gravel pits at Foley Park showed 11' (3.4m) of coarse pebbly gravel overlain by more than 8' (2.4m) of structureless brown sand without pebbles which does not appear to form part of the terrace and whose origin is uncertain. The deposit is underlain by solid sand deposits which are assessed separately as resource areas 2/22, 2/23 and 2/25. Estimated resource depth based on average of: a) Vales pit: 4.6m, b) sections in Lea's gravel pits: (3.4m + 2.4m = 5.8m) = 5.2m)	
Assessment of resource	e for the second consultation on MLP (Aut	
Commentary:	A medium-sized resource area. Much of the deposit is overlain by the settlements of Stourport and Kidderminster, and these areas are considered separately as resource areas 25/2a, 25/2b and 25/1a. The deposit continues to the south west of Birchen Coppice and this is considered as a separate resource area (25/1) as it is separated from 25/2 by over 500m.	
Crude estimate of	Area: 39 ha x average depth: 5.2 m ÷ 2	
resource:	Estimated resource volume: 1,014,000 m <sup>3</sup>	
	Estimated resource tonnage (at 2 t/m <sup>3</sup> ): 2	2,028,000 tonnes
Conclusion:	Significant – key resource.	
	Use to define areas of search.	

Assessment of resource	ce for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of	Area: 39 ha x average depth: 5.2 m ÷ 2	
resource:	Estimated resource volume: 1,014,000 m <sup>3</sup>	
	Estimated resource tonnage (at 1.65 t/m <sup>3</sup> ): 1,673,100 tonnes	
Conclusion:	Change to conclusion: Significant.	
Assessment of resource	ce for the Fourth Stage consultation on MLP (August 2018)	
Commentary:	Screened out due to the following appendix A criterion:	
	- Allocated site in Wyre Forest Local Plan	
	- Conservation Area	
	- Settlement boundary	
	Conservation Area	
Conclusion:	Compromised	

Overview			
Resource number:	25/2a		
Resource name:	North of Birchen		
	Coppice a) 38/1		
Resource area:	58ha EST/DISTRICT		
Resource depth:	Estimated 5.2m		
Location	Anticheded Buttsh		
OS sheet reference:	SO 87 SW		
National grid ref:	382522, 274518		
Resource description:			
Resource description:	A 3 <sup>rd</sup> terrace (Holt Heath) sand and gravel deposit. Vales pit, south of the West Midland Sugar Company's works, exposed 15' (4.6m) of interbedded sand and gravel. Sections in Lea's gravel pits at Foley Park showed 11' (3.4m) of coarse pebbly gravel overlain by more than 8' (2.4m) of structureless brown sand without pebbles which does not appear to form part of the terrace and whose origin is uncertain. The deposit is underlain by solid sand deposits which are assessed separately as resource areas 2/22 and 2/25. Estimated resource depth based on average of: a) Vales pit: 4.6m, b) sections in Lea's gravel pits: (3.4m + 2.4m = 5.8m) = 5.2m)		
	e for the second consultation on MLP (Autumn 2013)		
Commentary:	A medium-sized resource area which is overlain by the settlement of Birchen Coppice, Kidderminster. The deposit extends to the north (assessed separately as resource areas 25/2 and 25/2b), and also continues to the south west of Birchen Coppice (considered separately as resource area 25/1 and 25/1a.		
Crude estimate of	Area: 58 ha x average depth: 5.2 m ÷ 2		
resource:	Estimated resource volume: 1,508,000 m <sup>3</sup>		
	Estimated resource tonnage (at 2 t/m <sup>3</sup> ): 3,016,000 tonnes		
Conclusion:	Compromised by development.		
	e for the Third Stage consultation on MLP (Spring 2015)		
Revised estimate of	Area: 58 ha x average depth: 5.2 m ÷ 2		

resource:	Estimated resource volume: 1,508,000 m <sup>3</sup> Estimated resource tonnage (at 1.65 t/m³): 2,488,200 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:	25/2b	Sutton Farm
Resource name:	North of Birchen	database rights 2018
	Coppice b)	20024230 C 38/1
Resource area:	20ha	Derived from 159 000
Resource depth:	Estimated 5.2m	sdated/GS Digital Data/re-
Location		General Covert
OS sheet reference:	SO 87 SW	Narry Reary
National grid ref:	382522, 274518	Derendu men Valley Rahver oping work au au Birchen Coppic Au Birchen Coppic View Birchen Coppic
Resource description:		
Resource description:	A 3 <sup>rd</sup> terrace (Holt Heath) sand and gravel deposit. Vales pit, south of the West Midland Sugar Company's works, exposed 15' (4.6m) of interbedded sand and gravel. Sections in Lea's gravel pits at Foley Park showed 11' (3.4m) of coarse pebbly gravel overlain by more than 8' (2.4m) of structureless brown sand without pebbles which does not appear to form part of the terrace and whose origin is uncertain. The deposit is underlain by solid sand deposits which are assessed separately as resource areas 2/22 and 2/25. Estimated resource depth based on average of: a) Vales pit: 4.6m, b) sections in Lea's gravel pits: (3.4m + 2.4m = 5.8m) = 5.2m)	
	e for the second consultation	
Commentary:		ain by the Foley Park area of Kidderminster. The deposit continues to the south,
		t are assessed separately as resource areas 25/1, 25/1a, 25/2 and 25/2a.
Crude estimate of	Area: 20ha x average depth	
resource:	Estimated resource volume:	
Canaluaian		ge (at 2 t/m³): 1,040,000 tonnes
Conclusion:	Compromised by developme	
		Itation on MLP (Spring 2015)
Revised estimate of	Area: 20ha x average depth	
resource:	Estimated resource volume:	520,000 m <sup>~</sup>

Estimated resource tonnage (at 1.65 t/m <sup>3</sup> ): 858,000 tonnes			
Conclusion:	Compromised by development.		
Assessment of r	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			