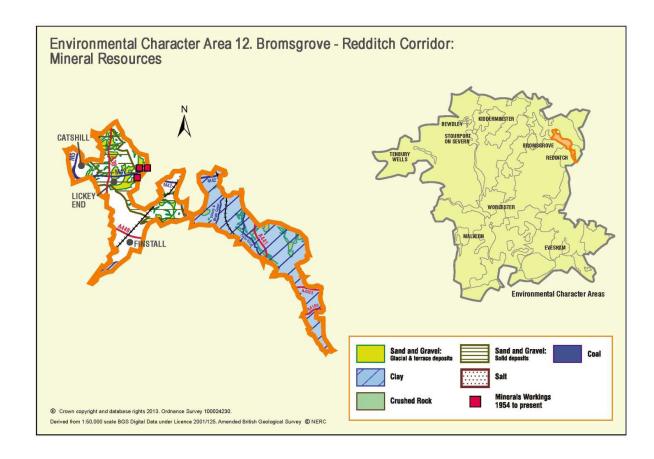
Appendix 12: Analysis of aggregate resources in ECA 12: Bromsgrove - Redditch Corridor



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 Bromsgrove-Redditch corridor ECA:

- Key: 1
- Significant: 2
- Not significant: 1
- Compromised: 9

There are additional resource areas for solid sand and gravel which cross into this ECA, but are assessed as part of ECA 3.

Crushed rock

There are no resource areas identified in Bromsgrove-Redditch 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 12

Sand and gravel resource areas:

Resource	Second Stage Consultation		Third Stage Consultation		Four	th Stage Consult	ation
number*	Original estimated resource tonnage (2 tonnes/m³)	Significance	Revised estimate of resource tonnage (1.65 tonnes/m³)	Significance	New resource number (where resource has been split)	Revised estimate of resource tonnage (1.65 tonnes/m³)	Result
12/1	780,000	Significant	643,500	Significant	12/1	600,600	Significant
12/1	780,000	Significant	043,300	Significant	12/1b		Compromised
12/2	884,000	Compromised	729,300	Compromised			
12/3	520,000	Compromised	429,000	Compromised	Not reassessed		
12/4	884,000	Compromised	729,300	Compromised			
12/5	182,000	Compromised	150,150	Compromised			
12/5a	364,000	Compromised	300,300	Compromised	1		
12/6	1 214 000	Cignificant	1 094 050	Cignificant	12/6	1,039,500	Significant
12/0	1,314,000	Significant	1,084,050	Significant	12/6b		Compromised
12/6a	252,000	Compromised	207,900	Compromised	Not reassessed		
12/7	Depth not known	Not significant	Depth not known	Not significant			
12/8	435,690,000	Key	359,444,250	Key	12/8 12/8b	286,790,625	Key Compromised
12/8	435,690,000	Key	359,444,250	Key	12/8 12/8b	286,790,625	,

Resource number: 12/1

Resource name: North of Upper

Catshill

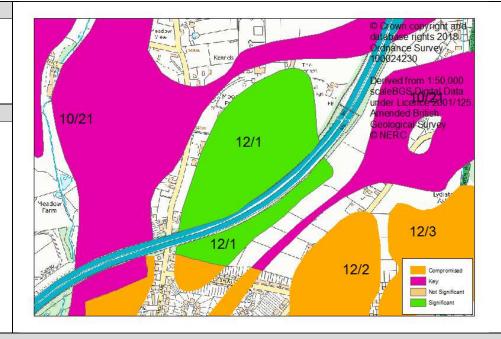
Resource area: 15ha

Resource depth: Estimated 5.2m

Location

OS sheet reference: SO 97 NE, SO 97 SE

National grid ref: 396371, 274871



Resource description:

Resource description:

Resource area 12/1 is Alluvial fan sand and gravel, however this is underlain by solid sand deposits (assessed as resource areas 3/7 and 3/10).

This is a complex area of geology but with some limited information available:

- To the north of Junction 4 of the M5 motorway, between Chadwich Grange Farm and Manor Farm, 3 boreholes have recorded:
 - o 3.6m of sand and gravel on sandstone overlain by 0.7m of sandy clay;
 - o 1.4m of clayey, silty sand on 7.6m of sandstone and
 - o 1.3m of clayey, pebbly sand on 5.7m of sandstone.
- 2 boreholes at Lydiate Ash recorded 2.1m and 1.8m of sand and gravel on sandstone.
- An exposure at the southern end of the Chadwich Farm Pit shows 1.9m of sand and gravel on sandstone.
- A borehole adjacent to the M5 south east of the Chadwich Lane / Money Lane junction proves 8.2m of sand and gravel on sandstone overlain by 1.4m of boulder clay.
- An exposure at Tramontana's Pit (in the Chadwich Lane, Money Lane, Sandy Lane area) on the south side of the County Council tip showed a 15m base of well bedded sand and gravel. The pit now infilled by Austin / BL formerly exposed 7.6m of gravel on 4m of coarse sand and fine gravel with the base not seen (total 11.6m).

	Chadwich Farm Pit: 1 9m, d) horeho	le adjacent to M5	south east of Chadwich Lane/Money Lane: 8.2m, and e)			
Assessment of res	average of exposures at Tramontana's Pit: 11.6m = 5.15m rounded to 5.2m) Assessment of resource for the second consultation on MLP (Autumn 2013)					
Commentary:		A small resource area with little built development throughout but extending under the settlement of Upper				
			5 motorway, this section is not included as part of the			
	resource area.	·				
Crude estimate of	Area: 15 ha x average depth: 5.2 m	÷ 2				
resource:	Estimated resource volume: 390,000					
I	Estimated resource tonnage (at 2		nnes			
Conclusion:	Significant.	•				
	Consider in defining areas of search	Consider in defining areas of search.				
Assessment of res	source for the Third Stage consultation of	on MLP (Spring 2	015)			
Revised estimate of	Area: 15 ha x average depth: 5.2 m	Area: 15 ha x average depth: 5.2 m ÷ 2				
resource:	Estimated resource volume: 390,000	Estimated resource volume: 390,000 m ³				
	Estimated resource tonnage (at 1.	.65 t/m³): 643,500	tonnes			
Conclusion:	Significant.					
Assessment of res	source for the Fourth Stage consultation	on MLP (August	2018)			
This resource area	has been split into areas 12/1 and 12/1b.					
	Resource area 12/1	Resource area 12/1b				
Resource area:	14 ha	Commentary:	Screened out due to the following appendix A criterion:			
Resource depth:	Estimated 5.2m		- Settlement boundary			
Revised estimate	Area: 14 ha x average depth: 5.2m ÷ 2					
of resource:	Estimated resource volume: 364,000 m ³					
	Estimated resource tonnage (at 1.65					
	t/m³): 600,600 tonnes					
Conclusion:	Significant resource	Conclusion:	Compromised			

Resource number: 12/2

Resource name: Woodrow Lane

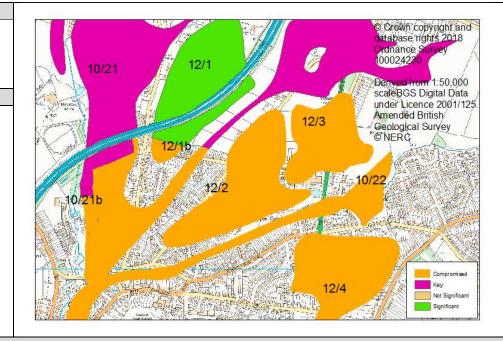
Resource area: 17 ha

Resource depth: Estimated 5.2m

Location

OS sheet reference: SO 97 NE

National grid ref: 396530, 274325



Resource description:

Resource description:

Resource area 12/2 is Alluvial fan sand and gravel, however this is underlain by solid sand deposits (assessed as resource areas 3/7 and 3/10).

This is a complex area of geology but with some limited information available:

- To the north of Junction 4 of the M5 motorway, between Chadwich Grange Farm and Manor Farm, 3 boreholes have recorded:
 - o 3.6m of sand and gravel on sandstone overlain by 0.7m of sandy clay;
 - o 1.4m of clayey, silty sand on 7.6m of sandstone and
 - o 1.3m of clayey, pebbly sand on 5.7m of sandstone.
- 2 boreholes at Lydiate Ash recorded 2.1m and 1.8m of sand and gravel on sandstone.
- An exposure at the southern end of the Chadwich Farm Pit shows 1.9m of sand and gravel on sandstone.
- A borehole adjacent to the M5 south east of the Chadwich Lane / Money Lane junction proves 8.2m of sand and gravel on sandstone overlain by 1.4m of boulder clay.
- An exposure at Tramontana's Pit (in the Chadwich Lane, Money Lane, Sandy Lane area) on the south side of the County Council tip showed a 15m base of well bedded sand and gravel. The pit now infilled by Austin / BL formerly exposed 7.6m of gravel on 4m of coarse sand and fine gravel with the base not seen (total 11.6m).

	Chadwich Farm Pit: 1.9m d) borehole adjacent to M5 south east of Chadwich Lane/Money Lane: 8.2m, and e)					
	average of exposures at Tramontana's Pit: 11.6m = 5.15m rounded to 5.2m)					
Assessment of resource	Assessment of resource for the second consultation on MLP (Autumn 2013)					
Commentary:	A small resource area which extends under the settlement of Upper Catshill. Only approximately 3 hectares					
	remains uncompromised by development.					
Crude estimate of	Area: 17 ha x average depth: 5.2 m ÷ 2					
resource:	Estimated resource volume: 442,000 m ³					
	Estimated resource tonnage (at 2 t/m³): 884,000 tonnes					
Conclusion:	Compromised by development with less than 10ha of the deposit remaining.					
Assessment of resource	ce for the Third Stage consultation on MLP (Spring 2015)					
Revised estimate of	Area: 17 ha x average depth: 5.2 m ÷ 2					
resource:	Estimated resource volume: 442,000 m ³					
	Estimated resource tonnage (at 1.65 t/m³): 729,300 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						

Resource number: 12/3

Resource name: Halesowen Road

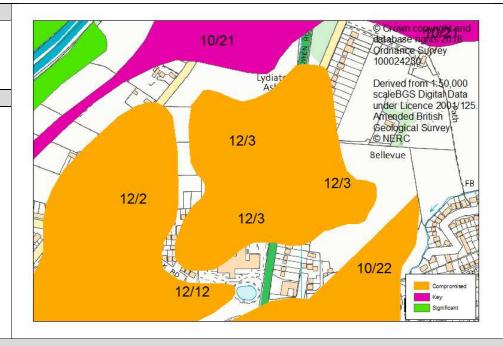
Resource area: 10ha

Resource depth: Estimated 5.2m

Location

OS sheet reference: SO 97 SE

National grid ref: 396933, 274591



Resource description:

Resource description:

Resource area 12/3 is Alluvial fan sand and gravel, however this is underlain by solid sand deposits (assessed as resource areas 3/7 and 3/10).

This is a complex area of geology but with some limited information available:

- To the north of Junction 4 of the M5 motorway, between Chadwich Grange Farm and Manor Farm, 3 boreholes have recorded:
 - o 3.6m of sand and gravel on sandstone overlain by 0.7m of sandy clay;
 - o 1.4m of clayey, silty sand on 7.6m of sandstone and
 - o 1.3m of clayey, pebbly sand on 5.7m of sandstone.
- 2 boreholes at Lydiate Ash recorded 2.1m and 1.8m of sand and gravel on sandstone.
- An exposure at the southern end of the Chadwich Farm Pit shows 1.9m of sand and gravel on sandstone.
- A borehole adjacent to the M5 south east of the Chadwich Lane / Money Lane junction proves 8.2m of sand and gravel on sandstone overlain by 1.4m of boulder clay.
- An exposure at Tramontana's Pit (in the Chadwich Lane, Money Lane, Sandy Lane area) on the south side of the County Council tip showed a 15m base of well bedded sand and gravel. The pit now infilled by Austin / BL formerly exposed 7.6m of gravel on 4m of coarse sand and fine gravel with the base not seen (total 11.6m).

	Chadwich Farm Pit: 1.9m d) borehole adjacent to M5 south east of Chadwich Lane/Money Lane: 8.2m, and e)				
	average of exposures at Tramontana's Pit: 11.6m = 5.15m rounded to 5.2m)				
Assessment of resource for the second consultation on MLP (Autumn 2013)					
Commentary:	A small resource area intersected by roads and largely overlain by built development.				
Crude estimate of	Area: 10 ha x average depth: 5.2 m ÷ 2				
resource:	Estimated resource volume: 260,000 m ³				
	Estimated resource tonnage (at 2 t/m³): 520,000 tonnes				
Conclusion:	Compromised by development with less than 10ha of the deposit remaining.				
Assessment of resour	ce for the Third Stage consultation on MLP (Spring 2015)				
Revised estimate of	Area: 10 ha x average depth: 5.2 m ÷ 2				
resource:	Estimated resource volume: 260,000 m ³				
Estimated resource tonnage (at 1.65 t/m³): 429,000 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					
; , ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;					

Resource number: 12/4

Resource name: Birmingham Road

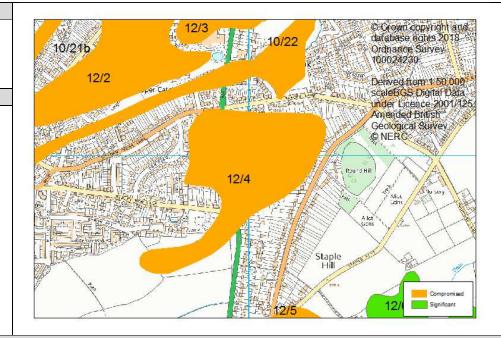
Resource area: 17ha

Resource depth: Estimated 5.2m

Location

OS sheet reference: SO 97 SE

National grid ref: 396768, 273656



Resource description:

Resource description:

Resource area 12/4 is Alluvial fan sand and gravel, however this is underlain by solid sand deposits (assessed as resource areas 3/8 and 3/10).

This is a complex area of geology but with some limited information available:

- To the north of Junction 4 of the M5 motorway, between Chadwich Grange Farm and Manor Farm, 3 boreholes have recorded:
 - o 3.6m of sand and gravel on sandstone overlain by 0.7m of sandy clay;
 - o 1.4m of clayey, silty sand on 7.6m of sandstone and
 - o 1.3m of clayey, pebbly sand on 5.7m of sandstone.
- 2 boreholes at Lydiate Ash recorded 2.1m and 1.8m of sand and gravel on sandstone.
- An exposure at the southern end of the Chadwich Farm Pit shows 1.9m of sand and gravel on sandstone.
- A borehole adjacent to the M5 south east of the Chadwich Lane / Money Lane junction proves 8.2m of sand and gravel on sandstone overlain by 1.4m of boulder clay.
- An exposure at Tramontana's Pit (in the Chadwich Lane, Money Lane, Sandy Lane area) on the south side of the County Council tip showed a 15m base of well bedded sand and gravel. The pit now infilled by Austin / BL formerly exposed 7.6m of gravel on 4m of coarse sand and fine gravel with the base not seen (total 11.6m).

	Chadwich Farm Pit: 1.9m d) borehole adjacent to M5 south east of Chadwich Lane/Money Lane: 8.2m, and e)					
	average of exposures at Tramontana's Pit: 11.6m = 5.15m rounded to 5.2m)					
Assessment of resource for the second consultation on MLP (Autumn 2013)						
Commentary:	A small resource area that is largely overlain by the settlement of Upper Catshill.					
Crude estimate of	Area: 17 ha x average depth: 5.2 m ÷ 2					
resource:	Estimated resource volume: 442,000 m ³					
	Estimated resource tonnage (at 2 t/m³): 884,000 tonnes					
Conclusion:	Compromised by development with less than 10ha of the deposit remaining.					
Assessment of resour	ce for the Third Stage consultation on MLP (Spring 2015)					
Revised estimate of	Area: 17 ha x average depth: 5.2 m ÷ 2					
resource:	Estimated resource volume: 442,000 m ³					
Estimated resource tonnage (at 1.65 t/m³): 729,300 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						

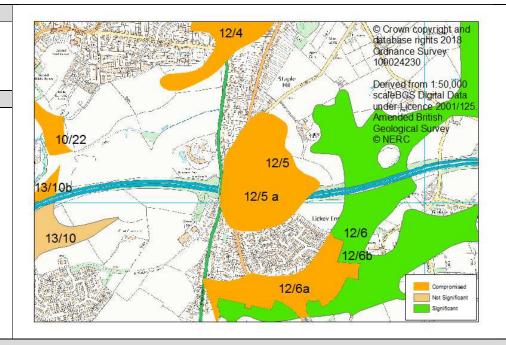
Resource number: 12/5

Resource area: Staple Hill
Resource area: 7ha remaining
Resource depth: Estimated 2.6m

Location

OS sheet reference: SO 97 SE

National grid ref: 397241, 273210



Resource description:

Resource description: Resource area 12/5 is Alluvial fan sand and gravel, however this is underlain by solid sand deposits (assessed

as resource area 3/8 and 3/10). A borehole in this deposit found 3.1m of sand and gravel over 3m of clay and

9m of sandstone. A second borehole found 3.8m of sandy clay over 2m of sand and gravel.

Estimated resource depth based on a) 1st borehole: 3.1m and b) 2nd borehole: 2m = 2.6m

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

Commentary: A small resource area with little built development. The deposit extends to the south and west under Junction 1

of the M42, this area is not included as part of the resource area. The deposit also extends under the urban

areas of Lickey End and Staple Hill, this is considered as resource area 12/5a.

Crude estimate of Area: 7 ha x average depth: $2.6 \text{ m} \div 2$

resource: Estimated resource volume: 91,000 m³

Estimated resource tonnage (at 2 t/m³): 182,000 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: 7 ha x average depth: 2.6 m ÷ 2 **resource:** Estimated resource volume: 91,000 m³

Estimated resource tonnage (at 1.65 t/m³): 150,150 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

Resource number: 12/5a

Resource name: Staple Hill a)

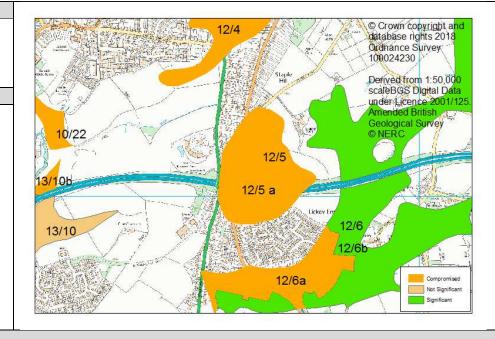
Resource area: 14ha

Resource depth: Estimated 2.6m

Location

OS sheet reference: SO 97 SE

National grid ref: 397241, 273210



Resource description:

Resource description: Resource area 12/5a is Alluvial fan sand and gravel, however this is underlain by solid sand deposits

(assessed as resource area 3/8 and 3/10). A borehole in this deposit found 3.1m of sand and gravel over 3m

of clay and 9m of sandstone. A second borehole found 3.8m of sandy clay over 2m of sand and gravel.

Estimated resource depth based on a) 1st borehole: 3.1m and b) 2nd borehole: 2m = 2.6m

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

Commentary: A small resource area overlain by the urban areas of Lickey End and Staple Hill. The deposit extends to the

north-east this is considered as resource area 12/5a.

Crude estimate of Area: 14 ha x average depth: $2.6 \text{ m} \div 2$ resource: Estimated resource volume: $182,000 \text{ m}^3$

Estimated resource tonnage (at 2 t/m³): 364,000 tonnes

Conclusion: Compromised by development.

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

Revised estimate of Area: 14 ha x average depth: 2.6 m ÷ 2 **resource:** Estimated resource volume: 182.000 m³

Estimated resource tonnage (at 1.65 t/m³): 300,300 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

12/6 Resource number:

Lickev End to Gorse Resource name:

Hill

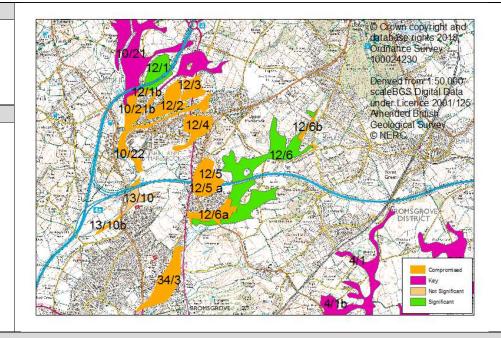
73ha Resource area:

Estimated 1.8m Resource depth:

Location

OS sheet reference: SO 97 SE

397987, 273223 National grid ref:



Resource description:

Resource description: Resource area 12/6 is Alluvial fan sand and gravel, however this is partially underlain by solid sand deposits

(assessed as resource area 3/8 and 3/10). A borehole north of Shepley Quarry reported 1.1m of sandy clay, 0.6m of sand and gravel, 1.2m of sand, 2.6m of clay and silt and 10.9m of sandstone. (Total 1.8m of sand and

gravel).

Estimated resource depth based on borehole North of Shepley Quarry: 1.8m

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

A medium-sized resource area with some built development. The deposit extends under the M42 motorway. Commentary:

this is not included as part of the resource area. The deposit also extends under the urban area of Lickey End,

this section is assessed as resource area 12/6a.

Crude estimate of Area: 73 ha x average depth: 1.8 m ÷ 2 resource:

Estimated resource volume: 657,000 m³

Estimated resource tonnage (at 2 t/m³): 1,314,000 tonnes

Conclusion: Significant.

Consider in defining areas of search.

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

Area: 73 ha x average depth: 1.8 m ÷ 2 Revised estimate of

Estimated resource volume: 657,000 m³ resource:

Estimated resource tonnage (at 1.65 t/m³): 1,084,050 tonnes

Conclusion: Significant.

Assessment of resource for the Fourth Stage consultation on MLP (August 2018)						
This resource area	This resource area has been split into areas 12/6 and 12/6b.					
	Resource area 12/6 Resource area 12/6b					
Resource area:	70 ha	Commentary:	Screened out due to the following appendix A criterion:			
Resource depth:	Estimated 1.8m		- Settlement boundary			
Revised estimate	Area: 70 ha x average depth: 1.8m ÷ 2					
of resource:	Estimated resource volume: 630,000 m ³					
	Estimated resource tonnage (at 1.65					
	t/m³): 1,039,500 tonnes					
Conclusion:	Significant resource	Conclusion:	Compromised			

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Resource number: 12/6a

Resource name: Lickey End a)

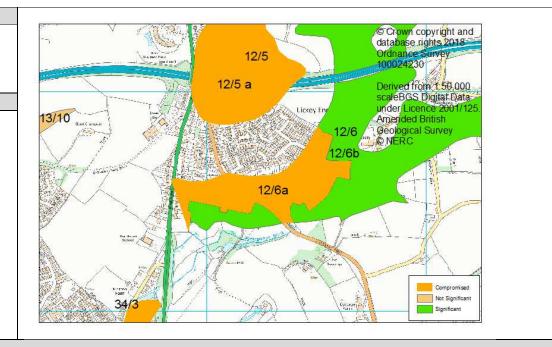
Resource area: 14ha

Resource depth: Estimated 1.8m

Location

OS sheet reference: SO 97 SE

National grid ref: 397987, 273223



Resource description:

Resource description: Resource area 12/6a is Alluvial fan sand and gravel, however this is underlain by solid sand deposits

(assessed as resource area 3/10). A borehole north of Shepley Quarry reported 1.1m of sandy clay, 0.6m of sand and gravel, 1.2m of sand, 2.6m of clay and silt and 10.9m of sandstone. (Total 1.8m of sand and gravel).

(Estimated resource depth based on borehole North of Shepley Quarry: 1.8m)

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

Commentary: A small resource area overlain by the urban area of Lickey End. The deposit extends to the south and east,

this is assessed as resource area 12/6.

Crude estimate of	Area: 14 ha x average depth: 1.8 m ÷ 2				
resource:	Estimated resource volume: 126,000 m ³				
	Estimated resource tonnage (at 2 t/m³): 252,000 tonnes				
Conclusion:	Compromised by development.				
Assessment of resource	Assessment of resource for the Third Stage consultation on MLP (Spring 2015)				
Revised estimate of	Area: 14 ha x average depth: 1.8 m ÷ 2				
resource:	Estimated resource volume: 126,000 m ³				
	Estimated resource tonnage (at 1.65 t/m³): 207,900 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					

Resource number: 12/7

Resource name: East of Bordesley

Park Farm

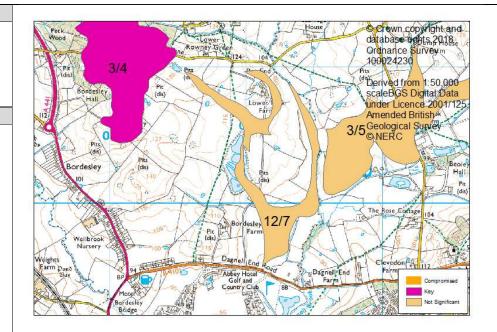
Resource area: 26ha

Resource depth: Not known

Location

OS sheet reference: SO 07 SE, SO 06 NE

National grid ref: 405177, 270266



Resource description:

Resource description: Glaciofluvial and alluvial fan sand and gravel. No information on thicknesses available.

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

Commentary: A small narrow resource area with little built development.

Crude estimate of

Depth not known

resource:
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 No change to the assessment.

resource:

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

Resource number: 12/8

Resource name: Blackwell Court to

Brockhill

Resource area: 282ha

Estimated 154.5m

Location

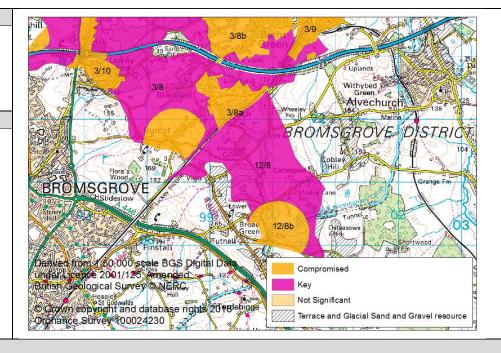
Resource depth:

OS sheet reference: SO 97 NE, SO 97

SE, SP 07 SW, SP

06 NW

National grid ref: 399890, 271073



Resource description:

Resource description:

Resource area 12/8 is Wildmoor Sandstone Formation solid sand. This is overlain by resource area 4/1 which is alluvial fan sand and gravel.

The Wildmoor Formation is generally described as red-brown and orange, fine to medium grained, feldspathic sandstone with sparse, thin mudstone beds. Generally the formation is characterised by a remarkably uniform, very weakly cemented, fine grained, silty, micaceous sandstone and an absence of pebbles, in contrast to the Kidderminster Formation, although sparse pebbly stringers are recorded. The fine grain-size and soft, poorly cemented, nature of the sandstone in some areas made it ideal for exploitation as moulding sand for use in the foundry industry.

The Wildmoor Sandstone Formation ranges in thickness, a borehole near Hagley (at grid reference 389940 281690) proved 175m of red hard and soft sandstone some of this could be attributed to the underlying Kidderminster Formation since the lower boundary is indistinct. The memoir for Redditch reports that the strata in this district is thickest at Webheath (134m), approx. 3km south of this resource area. East of the main outcrop the formation is cut out rapidly by the overstepping Bromsgrove Sandstone. There is no additional information about the depth of the deposit in this resource area.

(Estimated resource depth based on a mean average of: a) borehole near Hagley: 175m, b) Webheath: 134m = 154.5m)

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

Commentary: A large resource area with some built		development.					
Crude estimate of		Area: 282 ha x average depth: 154.5 m ÷ 2					
resource:	Estimated resource volume: 217,845,	000 m ³					
	Estimated resource tonnage (at 2 to	/m³): 435,690,000	0				
Conclusion:	Significant – key resource.	Significant – key resource.					
	Use to define areas of search.						
Assessment of res	source for the Third Stage consultation or	n MLP (Spring 2	015)				
Revised estimate of		m ÷ 2					
resource:	Estimated resource volume: 217,845,	000 m ³					
	Estimated resource tonnage (at 1.6	55 t/m³): 359,444,	,250 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 12/8 and 12/8b.	•	•				
	Resource area 12/8	Resource area 12/8b					
Resource area:	225 ha	Commentary:	Screened out due to the following appendix A criterion:				
Resource depth:	Estimated 154.5m		- Listed Buildings				
Revised estimate	Area: 225 ha x average depth: 154.5m ÷		- Source Protection Zone				
of resource:	2						
	Estimated resource volume: 173,812,500						
	m^3						
	Estimated resource tonnage (at 1.65						
	t/m³): 286,790,625 tonnes						
Conclusion:	Key resource	Conclusion:	Compromised				