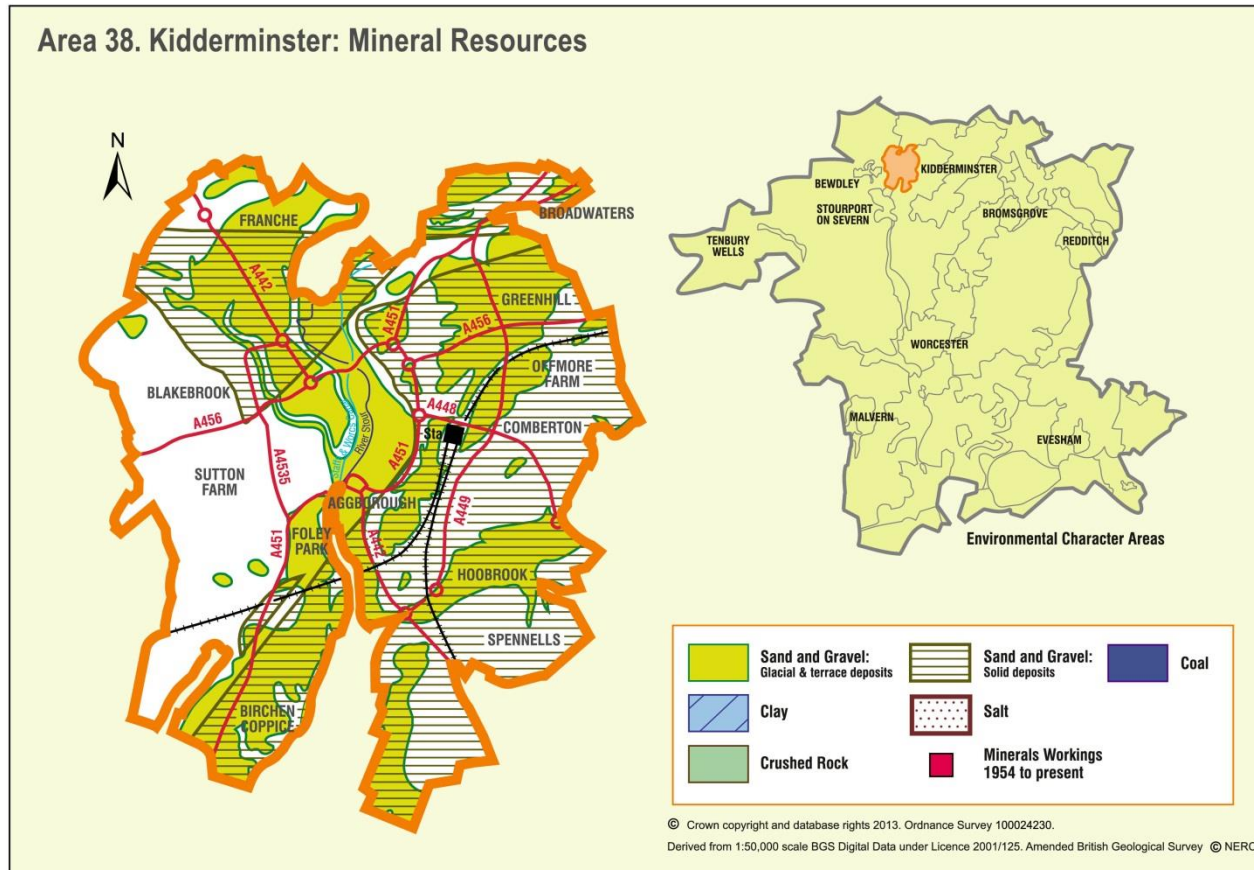


Appendix 38: Analysis of aggregate resources in Area 38: Kidderminster



ECA Summary for the Third Stage consultation on MLP (Spring 2015):

Sand and gravel

There are 5 resource areas identified for sand and gravel in Kidderminster Area:

- Not significant: 1
- Compromised: 4

There are also solid sand deposits in this area. These are assessed in Appendix 2 (Severn Valley North) as resource areas 2/21 and 2/25.

Crushed rock

There are no resource areas identified in Kidderminster 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 38

Sand and gravel resource areas:

Resource number*	Second Stage Consultation		Third Stage Consultation	
	Original estimated resource tonnage (2 tonnes/m ³)	Significance	Revised estimate of resource tonnage (1.65 tonnes/m ³)	Significance
38/1	320,000	Not significant	264,000	Not significant
38/2	5,166,000	Compromised	4,261,950	Compromised
38/3	966,000	Compromised	796,950	Compromised
38/4	610,000	Compromised	503,250	Compromised
38/5	5,795,000	Compromised	4,780,875	Compromised

Overview	
Resource number:	38/1
Resource name:	Spennells Valley Road
Resource area:	10ha
Resource depth:	Estimated 3.2m
Location	
OS sheet reference:	SO 87 NW
National grid ref:	384324, 275409
<p>Derived from 1:50,000 scale BGS Digital Data under Licence 2001/125 Amended British Geological Survey (c) NERC © Crown copyright and database rights 2013 Ordnance Survey 100024230</p>	
Resource description:	
Resource description:	Resource area 38/1 is 1 st terrace (Powerhouse) sand and gravel. The BGS memoirs state that the 1 st terrace varies in depth between 6' (1.8m) and 14'8" (4.5m) in the Stourport/Kidderminster area.
	Estimated resource depth based on mid-point in BGS estimate 1.8m to 4.5m: 3.2m.
	This resource area is underlain by solid sand deposits (assessed as resource area 2/21 and 2/25).
Assessment of resource for the second consultation on MLP (Autumn 2013)	
Commentary:	A small resource area with some built development in the east.
Crude estimate of resource:	Area: 10 ha x average depth: 3.2 m ÷ 2 Estimated resource volume: 160,000 m ³ Estimated resource tonnage (at 2 t/m³): 320,000 tonnes
Conclusion:	Not significant: Small deposit with less than 300,000m ³ . Not for consideration in defining areas of search.
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of resource:	Area: 10 ha x average depth: 3.2 m ÷ 2 Estimated resource volume: 160,000 m ³ Estimated resource tonnage (at 1.65 t/m³): 264,000 tonnes
Conclusion:	Not significant.

Overview	
Resource number:	38/2
Resource name:	Greenhill
Resource area:	123ha
Resource depth:	Estimated 4.2m
Location	
OS sheet reference:	SO 87 NW
National grid ref:	384160, 277146
Resource description:	
Resource description:	<p>Resource area 38/2 is 4th terrace (Kidderminster Station) sand and gravel. Pits have been worked in the southern end of this terrace in the past. In Lea and Mole's Pits (formerly Yates) adjoining the station there is a distinct bi-partition of the pits into fine sandy red or brown loam with a basal layer of pebbles up to 5' thick overlying 10' of coarse gravel and sand (total 15' or 4.6m). The gravels are contorted and contain local pockets of sand and sandy clay. Further in the south were sections showing up to 12' (3.7m) of sand and coarse gravel.</p> <p>Estimated resource depth based on mean average of: a) Lea and Mole's Pit 4.6m and b) sections in the south 3.7m = 4.2m</p> <p>This resource area is underlain by solid sand deposits (assessed as resource area 2/25).</p>
Assessment of resource for the second consultation on MLP (Autumn 2013)	
Commentary:	A medium-sized resource area overlain by the settlement of Kidderminster.
Crude estimate of resource:	<p>Area: 123 ha x average depth: 4.2 m ÷ 2</p> <p>Estimated resource volume: 2,583,000 m³</p> <p>Estimated resource tonnage (at 2 t/m³): 5,166,000 tonnes</p>
Conclusion:	Compromised by development.
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of resource:	<p>Area: 123 ha x average depth: 4.2 m ÷ 2</p> <p>Estimated resource volume: 2,583,000 m³</p> <p>Estimated resource tonnage (at 1.65 t/m³): 4,261,950 tonnes</p>
Conclusion:	Compromised by development.

Overview	
Resource number:	38/3
Resource name:	Aggborough
Resource area:	23ha
Resource depth:	Estimated 4.2m
Location	
OS sheet reference:	SO 87 NW
National grid ref:	383469, 275754
Resource description:	
Resource description:	<p>Resource area 38/3 is 4th terrace (Kidderminster Station) sand and gravel. Pits have been worked in the southern end of this terrace in the past. In Lea and Mole's Pits (formerly Yates) adjoining the station there is a distinct bi-partition of the pits into fine sandy red or brown loam with a basal layer of pebbles up to 5' thick overlying 10' of coarse gravel and sand (total 15' or 4.6m). The gravels are contorted and contain local pockets of sand and sandy clay. Further in the south were sections showing up to 12' (3.7m) of sand and coarse gravel.</p> <p>Estimated resource depth based on mean average of: a) Lea and Mole's Pit 4.6m and b) sections in the south 3.7m = 4.2m</p> <p>This resource area is underlain by solid sand deposits (assessed as resource area 2/25).</p>
Assessment of resource for the second consultation on MLP (Autumn 2013)	
Commentary:	A small resource area overlain by the settlement of Kidderminster. This deposit has partially been worked, this is not included as part of the resource area.
Crude estimate of resource:	<p>Area: 23 ha x average depth: 4.2 m ÷ 2</p> <p>Estimated resource volume: 483,000 m³</p> <p>Estimated resource tonnage (at 2 t/m³): 966,000 tonnes</p>
Conclusion:	Compromised by development.
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of resource:	<p>Area: 23 ha x average depth: 4.2 m ÷ 2</p> <p>Estimated resource volume: 483,000 m³</p> <p>Estimated resource tonnage (at 1.65 t/m³): 796,950 tonnes</p>
Conclusion:	Compromised by development.

Overview	
Resource number:	38/4
Resource name:	Churchfields
Resource area:	10ha
Resource depth:	Estimated 6.1m
Location	
OS sheet reference:	SO 87 NW
National grid ref:	383251, 277105
Resource description:	
Resource description:	Resource area 38/4 is 3 rd terrace (Holt Heath) sand and gravel. The BGS estimates that the 3 rd terrace varies between 15' (4.5m) and 25' (7.6m) in the Stourport/Kidderminster area. Estimated resource depth based on mid-point of BGS estimates (4.5m to 7.6m): 6.1m. This resource area is underlain by solid sand deposits (assessed as resource area 2/25).
Assessment of resource for the second consultation on MLP (Autumn 2013)	
Commentary:	A small resource area overlain by the settlement of Kidderminster.
Crude estimate of resource:	Area: 10 ha x average depth: 6.1 m ÷ 2 Estimated resource volume: 305,000 m ³ Estimated resource tonnage (at 2 t/m³): 610,000 tonnes
Conclusion:	Compromised by development.
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of resource:	Area: 10 ha x average depth: 6.1 m ÷ 2 Estimated resource volume: 305,000 m ³ Estimated resource tonnage (at 1.65 t/m³): 503,250 tonnes
Conclusion:	Compromised by development.

Overview	
Resource number:	38/5
Resource name:	Blakebrook and Franche
Resource area:	95ha
Resource depth:	Estimated 6.1m
Location	
OS sheet reference:	SO 87 NW
National grid ref:	382266, 277250

Resource description:	
Resource description:	3 rd terrace (Holt Heath) sand and gravel. The 3 rd terrace varies between 15' (4.5m) and 25' (7.6m) in the Stourport/Kidderminster area. Estimated resource depth based on mid-point of BGS estimated (4.5m to 7.6m): 6.1m. This resource area is underlain by solid sand deposits (assessed as resource area 2/25).
Assessment of resource for the second consultation on MLP (Autumn 2013)	
Commentary:	This resource area is overlain by the settlement of Kidderminster. The northern end of the deposit has previously been worked, this is not included as part of the resource area.
Crude estimate of resource:	Area: 95 ha x average depth: 6.1 m ÷ 2 Estimated resource volume: 2,897,500 m ³ Estimated resource tonnage (at 2 t/m³): 5,795,000 tonnes
Conclusion:	Compromised by development.
Assessment of resource for the Third Stage consultation on MLP (Spring 2015)	
Revised estimate of resource:	Area: 95 ha x average depth: 6.1 m ÷ 2 Estimated resource volume: 2,897,500 m ³ Estimated resource tonnage (at 1.65 t/m³): 4,780,875 tonnes
Conclusion:	Compromised by development.