Cheshire West & Chester Council

North West Aggregate Working Party

Annual Monitoring Report 2014

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Cheshire West and Chester

Introduction

The North West Aggregate Working Party (NWAWP) is one of nine similar working parties throughout England and Wales established in the 1970's, the core functions of which, as set out in the Planning Practice Guidance, are to:

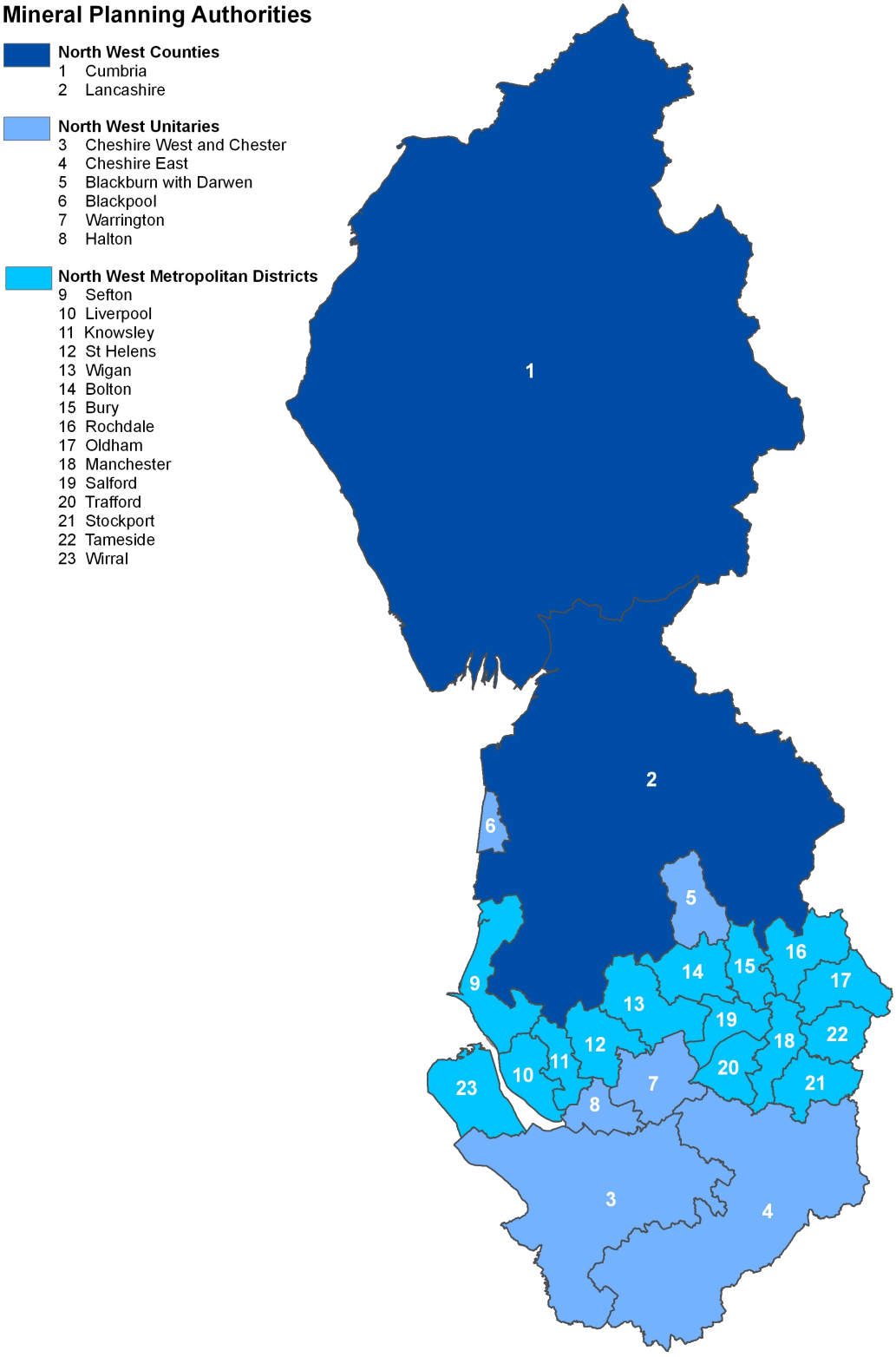
- consider, scrutinise and provide advice on the Local Aggregate Assessments of each mineral planning authority in its area;
- provide an assessment of the position of overall demand and supply for the Aggregate Working Party area; and
- obtain, collect and report on data on minerals activity in their area.

This report should be read alongside the North West AWP Local Aggregate Assessments 2014 Final Review and the member authority's Local Aggregate Assessments.

The membership of the North West AWP is detailed in Appendix A 'North West AWP membership' and is illustrated in Map 1.1 below.

The Annual Monitoring report 2014 represents the twentieth annual report and provides sales and reserve data for the period 1 January to 31 December 2013. The report provides data for each of the five sub-regions, as illustrated in Map 1.2, of Cheshire East; Cheshire West and Chester; Cumbria; Greater Manchester, Merseyside, Halton and Warrington; and Lancashire. Due to the availability of data, results for the Cheshire East and Chester West and Chester sub-regions are reported in one chapter.

Map .1 North West Aggregate Working Party authorities 2014



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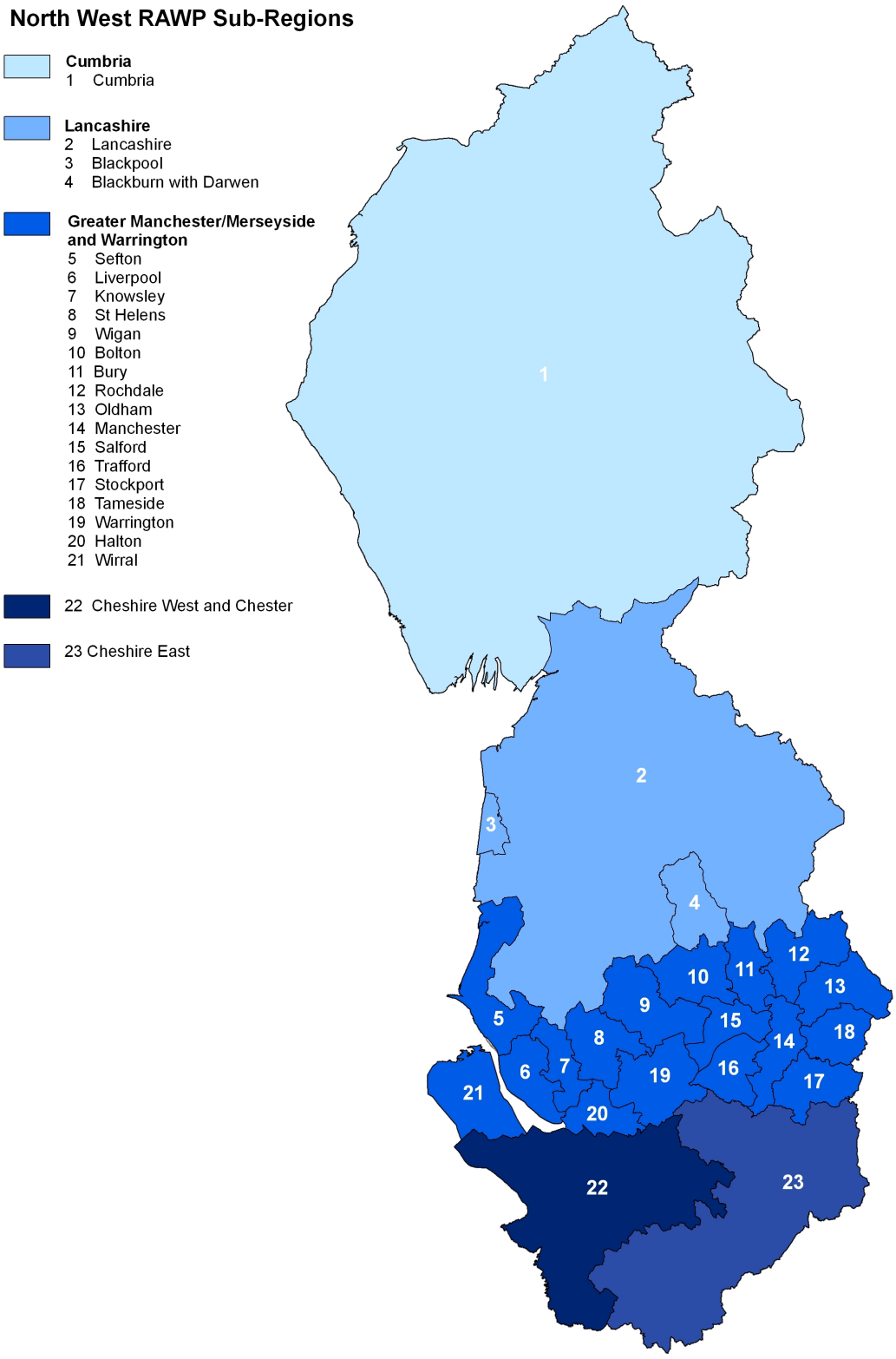
Map .2 North West Aggregate Working Party sub-regions 2014



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1 North West

1.1 Tables 1.1 to 1.4 provide an overview of sales, reserve and landbank figures for aggregate land-won crushed rock and sand and gravel across the north west region covering the period 1 January to 31 December 2013.

Total aggregate sales, reserves and landbank

1.2 During the 2013 monitoring period total aggregate sales fell by 12 per cent from 7.81mt in 2012 to 6.88mt, bringing sales to the lowest levels in over ten years and 6mt below the annual guidelines[1] for aggregate provision of 12.88mt. However, the rate at which sales are falling is the slowest since the AM07 monitoring period. Total aggregate reserves decreased by 5.9 per cent from 331.71mt as at 31 December 2012 to 312.15mt. This is 12.68mt lower than would have been expected given the low level of sales. This higher than expected fall is largely due to a reduction in the recorded level of sandstone and igneous rock reserves in Cumbria due to double counting in previous monitoring periods.

1.3 The total aggregate landbank for the north west as at 31 December 2013 is 24.2 years, based on an annual requirement of 12.88mt of primary land-won aggregate as set out in the guidelines for aggregate provision.

Table 1.1 North west aggregate landbank as at 31 December 2013

Aggregate	Landbank as at 31.12.2012 (years)	Reserves as at 31.12.2013 (mt)	Annual apportionment requirement 2005-2020 (mt)	Landbank as at 31.12.2013 (years)
Crushed rock	30.5 years	275.8mt	9.62mt	28.7 years
Land-won sand and gravel	11.8 years	36.4mt	3.26mt	11.2 years
Total aggregate landbank	**-**	**312.15mt**	**12.88mt**	**24.2 years**

Aggregate crushed rock sales, reserves and landbank

1.4 Sales of crushed rock aggregate fell by approximately 14 per cent from 5.80mt in 2012 to 4.97mt, the lowest recorded sales figure for over 10 years. The most significant fall was in sales of High Specification Aggregate (HSA) where sales fell by 25.5 per cent from 0.55mt during 2012 to 0.41mt. Sales of limestone and sandstone and igneous rock fell by 12.2 per cent and 15.1 per cent respectively.

1 National and regional guidelines for aggregate provision in England 2005 - 2020, Communities and Local Government, June 2009

1 North West

1.5 Total reserves of crushed rock aggregate fell by 5.9 per cent from 293.1mt in 2012 to 275.76mt at 31 December 2013. Reserves of limestone fell in line with sales figures by 1.2 per cent from 160.2mt to 158.33mt. The fall in reserves of both High Specification Aggregate (HSA) and sandstone and igneous rock was higher than would have been expected and were recorded at 11.2 per cent and 15.8 per cent respectively. The higher than expected fall in HSA reserves is due to double counting in previous monitoring periods in Cumbria as set out in paragraph 1.2 above.

1.6 The crushed rock landbank for the north west as at 31 December 2013 was 28.7 years, far in excess of the minimum 10 year requirement. Landbanks for the sub-regions are detailed in the individual chapters.

Aggregate sand and gravel sales, reserves and landbank

1.7 Sales of land-won aggregate sand and gravel fell by 4.9 per cent from 2.01mt in 2012 to 1.91mt in 2013 but remain higher than the lowest recorded figure of 1.87mt in 2011. This is a smaller decrease than that experienced in sales of crushed rock aggregate during the same monitoring period.

1.8 Reserves of land-won aggregate sand and gravel also fell at a similar rate of 5.7 per cent from 38.61mt in 2012 to 36.39mt as at 31 December 2013. This fall is in line with what would have been expected given the sales levels for the same period. The sand and gravel landbank for the north west as at 31 December 2013 was 11.2 years, a reduction of less than a year from 11.8 years at the end of the 2012 monitoring period. Landbanks for the sub-regions are detailed in the individual chapters.

Table 1.3 North West land-won aggregate sales 1998-2013 (million tonnes)

Monitoring period	AM98	AM99	AM00	AM01	AM02	AM03	AM04	AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Aggregate crushed rock sales																
Limestone	5.9	6.0	6.1	5.6	5.6	5.2	5.5	5.1	5.3	5.8	5.18	3.77	4.05	3.39	3.53	3.1
Sandstone and igneous rock	4.9	4.58	4.2	4.5	4.6	4.12	3.95	2.79	2.86	2.92	2.09	1.34	1.63	1.29	1.72	1.46
High Specification Aggregate (HSA)	~	~	~	~	~	~	~	0.74	0.69	0.7	0.75	0.78	0.59	0.60	0.55	0.41
Total crushed rock sales	**10.8**	**10.58**	**10.3**	**10.1**	**10.2**	**9.32**	**9.45**	**8.63**	**8.85**	**9.42**	**8.02**	**5.89**	**6.27**	**5.28**	**5.80**	**4.97**
Aggregate sand and gravel sales																
Land-won sand and gravel	4.16	4.1	3.78	3.1	3.2	3.36	2.84	3.06	2.97	3.0	2.69	2.18	2.29	1.87	2.01	1.91
Total sand and gravel sales	**4.16**	**4.1**	**3.78**	**3.1**	**3.2**	**3.36**	**2.84**	**3.06**	**2.97**	**3.0**	**2.69**	**2.18**	**2.29**	**1.87**	**2.01**	**1.91**
Total aggregate sales																
Total aggregate sales	**14.96**	**14.68**	**14.08**	**13.2**	**13.4**	**12.68**	**12.29**	**11.69**	**11.82**	**12.42**	**10.71**	**8.07**	**8.56**	**7.15**	**7.81**	**6.88**

Table 1.4 North West land-won aggregate reserves 1998-2013 (million tonnes)

Monitoring period	AM98	AM99	AM00	AM01	AM02	AM03	AM04	AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Aggregate crushed rock reserves																
Limestone	151.1	168.6	170.8	159.9	161.3	156.7	150.8	148.2	174.7	173.9	162.65	171.53	175.4	166.3	160.2	158.33
Sandstone and igneous rock	196.65	191.9	179.3	172.8	166.6	158.9	168.4	143.1	155.3	153.2	141.1	138.6	153.3	115.36	119.2	105.9
High Specification Aggregate (HSA)	~	~	~	~	~	~	~	9.85	9.55	19.0	18.2	17.26	13.16	13.8	13.7	11.53
Total crushed rock reserves	**347.8**	**360.5**	**350.01**	**332.7**	**327.9**	**315.6**	**319.2**	**301.2**	**339.6**	**346.1**	**321.95**	**327.39**	**341.86**	**295.46**	**293.1**	**275.76**
Aggregate sand and gravel reserves																
Land-won sand and gravel	46.64	46.27	43.2	47.9	47.3	41.34	39.24	43.02	45.59	38.7	45.97	41.77	36.17	35.33	38.61	36.39
Total sand and gravel reserves	**46.64**	**46.27**	**43.2**	**47.9**	**47.3**	**41.34**	**39.24**	**43.02**	**45.59**	**38.7**	**45.97**	**41.77**	**36.17**	**35.33**	**38.61**	**36.39**
Total aggregate reserves																
Total aggregate reserves	**394.39**	**406.77**	**393.3**	**380.6**	**375.2**	**356.9**	**358.6**	**343.5**	**385.1**	**384.8**	**367.88**	**369.16**	**378.03**	**330.79**	**331.71**	**312.15**

2 Cheshire East and Cheshire West and Chester

2.1 During the 2011 and 2012 monitoring periods data was collected for the two separate sub-regions of Cheshire East and Cheshire West and Chester. The result of this monitoring is being reported together to enable analysis of ten year supply patterns. The two sub-regions will be reported separately when sufficient data has been gathered. It should be noted that Cheshire West and Chester does not contain any permitted crushed rock aggregate reserves and therefore analysis relates solely to Cheshire East for this aggregate.

Aggregate crushed rock sales, reserves and landbank

2.2 Sales of aggregate land-won crushed rock from Cheshire East remained unchanged for the fifth consecutive monitoring period. Sales from the sub-region are consistently very low as the material is of a relatively low grade and is largely utilised as dressing stone, aggregate production is a by-product of the main uses. Reserves of aggregate crushed rock also remained unchanged and were recorded as 4.29mt as at 31 December 2013 providing for a landbank of 107.25 years. This large landbank should be treated with caution due to the lack of firm data relating to the proportion of aggregate in total reserves and the nature of the material produced.

Table 2.1 Cheshire East aggregate crushed rock landbanks as at 31 December 2013

	Landbank as at 31.12.2012	Permitted reserves as at 31.12.2013 (mt)	Annual apportionment requirement 2005-2020 (mt)	Landbank as at 31.12.2013 (years)
Cheshire East	107.25	4.29mt	0.04mt	107.25 years

Aggregate sand and gravel sales, reserves and landbank

Cheshire East

2.3 Sales of land-won aggregate sand and gravel in Cheshire East increased marginally by 2.5 per cent from 0.40mt in 2012 to 0.41mt. Due to the relatively new monitoring regime for the former Cheshire sub-region it is not possible to monitor any long-term sales pattern for Cheshire East. Reserves of sand and gravel fell by 7.5 per cent in line with the sales experienced during the monitoring period. The relatively stable level of sales has resulted in a minimal change to the landbank which at 31 December 2013 was 7.28 years. This is only slightly above the minimum seven year requirement expressed in the NPPF. However, it should be noted that the exact proportion of aggregate reserves, as part of larger reserves of industrial sand, is not known and therefore provision fluctuates in response to demand year on year. This will need to be continually reviewed in future Annual Monitoring Reports and Local Aggregate Assessments.

Cheshire West and Chester

2 Cheshire East and Cheshire West and Chester

2.4 Sales of land-won aggregate sand and gravel in Cheshire West and Chester fell by 23.6 per cent during the 2013 monitoring period from 0.55mt during 2012 to 0.42mt. As with Cheshire East, due to the short-term nature of monitoring for Cheshire West and Chester it is not possible to assess any established pattern, future monitoring will provide the opportunity to do this. Reserves of sand and gravel decreased by 4.6 per cent from 9.31mt as at 31 December 2012 to 8.88mt, in line with sales figures recorded. The landbank for sand and gravel as at 31 December 2013 was 11.1 years compared to 11.6 years at the end of 2012 monitoring period. This remains in excess of the minimum seven year requirement set out in the NPPF.

Table 2.2 Cheshire aggregate land-won sand and gravel landbanks as at 31 December 2013

	Landbank as at 31.12.2012	Permitted reserves as at 31.12.2013	Annual apportionment requirement 2005-2020 (mt)	Landbank as at 31.12.2013 (years)
Cheshire East	7.9 years	5.17mt	0.71mt	7.28 years
Cheshire West and Chester	11.6 years	8.88mt	0.80mt	11.1 years

Table 2.3 Cheshire aggregate crushed rock sales and reserves 1998-2013 (million tonnes)

Monitoring period	AM98	AM99	AM00	AM01	AM02	AM03	AM04	AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Aggregate crushed rock sales																
Cheshire	0.1	0.1	0.1	0.1	0.01	0.02	0.05	0.03	0.05	0.03	0.02	0.001	~	~	~	~
Cheshire East	~	~	~	~	~	~	~	~	~	~	~	~	0.001	0.001	0.001	0.001
Total sales	**0.1**	**0.1**	**0.1**	**0.1**	**0.01**	**0.02**	**0.05**	**0.03**	**0.05**	**0.03**	**0.02**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
Aggregate crushed rock reserves																
Cheshire	8.52	8.4	8.36	6.5	5.6	5.6	5.4	5.4	5.35	5.52	5.6	4.42	~	~	~	~
Cheshire East	~	~	~	~	~	~	~	~	~	~	~	~	4.29	4.29	4.29	4.29
Total reserves	**8.52**	**8.4**	**8.36**	**6.5**	**5.6**	**5.6**	**5.4**	**5.4**	**5.35**	**5.52**	**5.6**	**4.42**	**4.29**	**4.29**	**4.29**	**4.29**

Table 2.4 Cheshire aggregate sand and gravel sales and reserves 1998-2013 (million tonnes)[1]

Monitoring period	AM98	AM99	AM00	AM01	AM02	AM03	AM04	AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Aggregate land-won sand and gravel sales																
Cheshire	2.3	2.48	2.33	1.7	1.4	1.4	1.1	1.58	1.44	1.51	1.17	0.87	~	~	~	~
Cheshire East	~	~	~	~	~	~	~	~	~	~	~	~	0.42	0.26	0.40	0.41
Cheshire West and Chester	~	~	~	~	~	~	~	~	~	~	~	~	0.54	0.66	0.55	0.42
Total sales	**2.3**	**2.48**	**2.33**	**1.7**	**1.4**	**1.4**	**1.1**	**1.58**	**1.44**	**1.51**	**1.17**	**0.87**	**0.96**	**0.92**	**0.95**	**0.83**
Aggregate land-won sand and gravel reserves																
Cheshire	21.7	19.3	17.9	24.6	23.5	19.7	19.2	20.53	21.3	19.52	16.4	12.76	~	~	~	~
Cheshire East	~	~	~	~	~	~	~	~	~	~	~	~	1.75	5.6	5.59	5.17
Cheshire West and Chester	~	~	~	~	~	~	~	~	~	~	~	~	4.42	5.27	9.31	8.88
Total reserves	**21.7**	**19.3**	**17.9**	**24.6**	**23.5**	**19.7**	**19.2**	**20.53**	**21.3**	**19.52**	**16.4**	**12.76**	**6.17**	**10.87**	**14.9**	**14.05**

1. AM13 data includes officer estimates for Cheshire East

Table 2.5 Cheshire aggregate sites surveyed 2013

Site name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
Arclid Quarry	Bathgate Silica Sand	SJ 783 613	Silica Sand	Active	Cheshire East Council	MPA(1)
Bent Farm Quarry	Sibelco UK	SJ 831 619	Silica Sand	Active	Cheshire East Council	MPA
Cherry Orchard Sand Unit	Cherry Orchard Sand Unit Ltd	SJ 568 680	Sand	Closed	Cheshire West and Chester Council	
Cheshire Sands(2)	Lafarge Tarmac Limited	SJ 572 699	Sand	Active	Cheshire West and Chester Council	MPA
Cobden Farm	Lafarge Tarmac Limited	SJ 587 673	Sand	Inactive	Cheshire West and Chester Council	MPA
Dingle Bank Quarry	Sibelco UK	SJ 832 714	Silica Sand	Active	Cheshire East Council	MPA
Eaton Hall Quarry	Lafarge Tarmac Limited	SJ 860 655	Silica Sand	Active	Cheshire East Council	MPA
Endon Quarry	Park Skip Hire	SJ 940 763	Sandstone	Active	Cheshire East Council	
Forest Hill Quarry	CEMEX UK Materials Limited	SJ 612 714	Sand	Active	Cheshire West and Chester Council	MPA
Fourways	Lafarge Tarmac Limited	SJ 577 690	Sand	Active	Cheshire West and Chester Council	MPA
Gawsworth Quarry	O'Gara Developments	SJ 919 679	Sandstone	Inactive	Cheshire East Council	
Lee Hills Quarry	Lee Hills Quarries	SJ 928 691	Sandstone	Inactive	Cheshire East Council	
Marksend Quarry	A.M & D Earl	SJ 941 757	Sandstone	Active	Cheshire East Council	
Mere Farm Quarry	Hanson Quarry Products Europe Limited	SJ 825 746	Sand	Active	Cheshire East Council	MPA
Rough Hey Quarry	O'Gara Developments	SJ 923 682	Sandstone	Inactive	Cheshire East Council	

Site name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
Sycamore Quarry	A.M & D Earl	SJ 939 766	Sandstone	Active	Cheshire East Council	
Town Farm Quarry	Marchington Stone Limited	SJ 565 735	Sand	Active	Cheshire West and Chester Council	MPA

1. Also Members of SAMSA (Silica and Moulding Sands Association)
2. Incorporates Crown Farm and Delamere Quarries (pending s106 agreement)

Monitoring of planning applications

Table 2.6 Planning applications for primary aggregate extraction determined 1 January 2011 to 31 December 2013

	Aggregate crushed rock			Land-won aggregate sand and gravel		
	Granted (mt)	Refused (mt)	No of applications	Granted (mt)	Refused (mt)	No of applications
Cheshire East	-	-	-	7mt	-	1
Cheshire West and Chester	-	-	-	-	-	-
Total	**-**	**-**	**-**	**7mt**	**-**	**1**

Table 2.7 Planning applications for primary aggregate extraction pending as at 31 December 2013

	Aggregate crushed rock		Land-won aggregate sand and gravel	
	Resource (mt)	No. of applications	Resource (mt)	No. of applications
Cheshire East	-	-	-	-
Cheshire West and Chester	-	-	0.64mt	1
Total	**-**	**-**	**0.64mt**	**1**

Table 2.8 Planning application details for primary aggregate extraction determined and pending 1 January 2013 to 31 December 2013

MPA	Site	Applicant	Application No.	Mineral	Area of application (ha)	Resource (mt)	Extension/new quarry	Decision/date
Cheshire East	Arclid Quarry	Archibald Bathgate Group Ltd	09/2291W	Sand	57.8ha	7mt	Extension	Approved
Cheshire West and Chester	Forest Hill	Cemex UK	13/03715/MIN	Sand	14.02ha	0.64mt	Extension	Pending s106 agreement

Monitoring of Development Plan progress

Table 2.9 Development Plan progress in Cheshire authorities

MPA	Local Development Framework		
	Local Development Scheme	Statement of Community Involvement	Local Plan/Development Plan Document
Cheshire East Council	Revised scheme adopted January 2011	Adopted October 2010	Cheshire Replacement Minerals Local Plan 1999 (policies saved in 2007)
Cheshire West and Chester Council	Revised July 2013	Update adopted August 2013	

Environment Act 1995: Review of aggregate mineral planning permissions

Table 2.10 Environment Act 1995 - summary of aggregate mineral review sites as at 31 December 2013

MPA	Phase I						Phase II						Dormant		
	Original	Lapsed	Submitted	Determined	With SoS	High Court	Original	Lapsed	Submitted	Determined	With SoS	High Court	Original	Submitted	Determined
Cheshire East Council	6		2	6			1			1			7		1
Cheshire West and Chester Council	1			1											

3 Cumbria

3.1 For the purposes of annual monitoring, the Lake District National Park is included within the Cumbria sub-region. Landbank figures within this monitoring report are calculated using the most up to date apportionment figures. It should however be noted that Cumbria objected to this apportionment and therefore landbanks identified within this report do not reflect the landbank reported in the 'Cumbria and the Lake District National Park Second Joint Annual Local Aggregate Assessment 2014'.

Aggregate crushed rock sales, reserves and landbank

3.2 Total sales of aggregate crushed rock decreased during the 2013 monitoring period by 18.6 per cent from 2.95mt in 2012 to 2.40mt, the lowest recorded sales figure for over ten years. Sales of High Specification Aggregate (HSA) fell sharply by 25.5 per cent alongside a fall in sales of limestone of 20.2 per cent. This fall is due to the mothballing of one site within the area which has previously supplied circa 0.10mt per annum. Sales of sandstone and igneous rock remained unchanged for the third consecutive year at 0.37mt per annum suggesting a stable demand for this resource.

3.3 Recorded reserves of crushed rock aggregate fell during the monitoring period by 11.5 per cent from 136.7mt as 31 December 2012 to 121.03mt. Reserves of sandstone and igneous rock (non HSA) fell steeply by 55.9 per cent from 23.41mt as at 31 December 2012 to 10.33mt. This significant fall in reserves is due to double counting of reserves of sandstone and igneous rock during previous monitoring periods. Reserves of HSA fell by 16.3 per cent from 13.77mt as 31 December 2012 to 11.53mt, a much larger fall than expected given the reduced levels of sales for the monitoring period. Limestone reserves fell by only 0.39 per cent to 99.17mt which is 1.23mt higher than what would be expected given the sales figures for the monitoring period.

3.4 The crushed rock landbank continued to fall to 30.12 years as at 31 December 2013, just under four years lower than the landbank recorded for 2012 when a landbank of 34 years was recorded. This is a reflection of the falling levels of total crushed rock reserves, but is, however, significantly higher than the 10 year requirement set out in the NPPF.

Table 3.1 Cumbria aggregate crushed rock landbank as at 31 December 2013

	Landbank as at 31.12.2012	Permitted reserves as at 31.12.2013	Annual apportionment requirement 2005-2020 (mt)	Landbank as at 31.12.2013 (years)
Cumbria	34 years	121.03mt	4.02mt	30.12 years

Aggregate sand and gravel sales, reserves and landbank

3.5 Total sales of aggregate sand and gravel increased during 2013 by 4.3 per cent from 0.47mt in 2012 to 0.49 mt. This increase is due to the slight upturn in sales of land-won aggregate sand and gravel from 0.46mt in 2012 to 0.48mt. Landings of marine dredged aggregate sand and gravel remained

3 Cumbria

unchanged for the third consecutive monitoring period at 0.01mt per annum indicating a steady supply of aggregate from this resource.

3.6 Reserves of aggregate land-won sand and gravel fell by 6.6 per cent from 10.59mt as at 31 December 2012 to 9.89mt, 0.22mt lower than would have been expected given sales figures for the same period. The landbank for aggregate land-won sand and gravel has reduced slightly during the monitoring period from 12.03 years as at 31 December 2012 to 11.24 years. This remains in excess of the minimum seven year requirement set out in the NPPF.

Table 3.2 Cumbria aggregate land-won sand and gravel landbank as at 31 December 2013

	Landbank as at 31.12.2012	Permitted reserves as at 31.12.2013	Annual apportionment requirement 2005-2020 (mt)	Landbank as at 31.12.2013 (years)
Cumbria	12.03 years	9.89mt	0.88mt	11.24 years

Table 3.3 Cumbria aggregate crushed rock sales and reserves 1998-2013 (million tonnes)

Monitoring period	AM98	AM99	AM00	AM01	AM02	AM03	AM04	AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Aggregate crushed rock sales																
Limestone	3.2	3.4	3.4	3.0	2.9	2.6	2.8	2.6	2.7	2.8	2.7	1.91	2.46	1.84	2.03	1.62
Sandstone and igneous rock	0.8	0.87	1.0	1.1	1.1	1.1	1.1	0.36	0.27	0.53	0.4	0.38	0.41	0.37	0.37	0.37
High Specification Aggregate (HSA)	~	~	~	~	~	~	~	0.74	0.69	0.7	0.72	0.78	0.59	0.60	0.55	0.41
Total sales	**4.0**	**4.2**	**4.4**	**4.1**	**4.0**	**3.7**	**3.9**	**3.7**	**3.66**	**4.0**	**3.85**	**3.07**	**3.46**	**2.81**	**2.95**	**2.40**
Aggregate crushed rock reserves																
Limestone	91.7	111.8	116.7	106.0	102.0	99.2	96.1	97.9	97.7	102.5	110.05	103.9	109.8	103.8	99.56	99.17
Sandstone and igneous rock	66.8	67.5	66.5	65.0	63.0	62.0	60.9	48.85	49.2	48.69	47.75	47.81	47.36	24.81	23.41	10.33
High Specification Aggregate (HSA)	~	~	~	~	~	~	~	9.85	9.55	19.0	18.2	17.26	13.16	13.81	13.77	11.53
Total reserves	**158.5**	**179.3**	**183.2**	**171.0**	**165.0**	**161.2**	**157.0**	**156.6**	**156.5**	**170.2**	**186.7**	**168.9**	**170.3**	**142.4**	**136.7**	**121.03**

Table 3.4 Cumbria aggregate sand and gravel sales and reserves 1998-2013 (million tonnes)

Monitoring period	AM98	AM99	AM00	AM01	AM02	AM03	AM04	AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Aggregate sand and gravel sales																
Land-won sand and gravel	0.9	0.9	0.8	0.7	0.9	1.0	0.8	0.7	0.79	0.87	0.77	0.52	0.53	0.46	0.46	0.48
Marine dredged aggregate sand and gravel	~	~	~	0.03	0.04	0.04	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.01
Total sales	**0.9**	**0.9**	**0.8**	**0.73**	**0.94**	**1.04**	**0.82**	**0.72**	**0.81**	**0.88**	**0.79**	**0.54**	**0.55**	**0.47**	**0.47**	**0.49**
Aggregate land-won sand and gravel reserves																
Land-won sand and gravel	12.2	12.3	11.8	12.0	12.1	11.4	10.5	9.18	9.19	8.67	13.47	13.95	11.48	11.1	10.59	9.89
Total reserves	**12.2**	**12.3**	**11.8**	**12.0**	**12.1**	**11.4**	**10.5**	**9.18**	**9.19**	**8.67**	**13.47**	**13.95**	**11.48**	**11.1**	**10.59**	**9.89**

Table 3.5 Cumbria aggregate sites surveyed 2013

Site name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
Bonnie Mount Quarry	J. E. A and S. M Burne	NY 548 313	Sand	Active	Cumbria County Council	
Brocklewath Farm	Norbrook Laboratories	NY 348 551	Sand	Active	Cumbria County Council	
Cardewmires Quarry	Thomas Armstrong Ltd	NY 343 505	Sand and gravel	Active	Cumbria County Council	MPA
Derwent Howe Slag Bank	Thomas Armstrong Ltd	NX 985 285	Slag	Active	Cumbria County Council	MPA
Elterwater Quarry	Burlington Slate Ltd	NY324048	Secondary aggregate	Active	Lake District National Park Authority	
Eskett and Rowrah Quarries	Aggregate Industries UK	NY 054 167	Limestone	Active	Cumbria County Council	MPA
Faugh No. 1 Sand Pit	Hanson Quarry Products Europe Limited	NY 512 552	Sand	Inactive	Cumbria County Council	MPA
Faugh No. 2 Sand Pit	Eddie Wannop Limited	NY 512 552	Sand	Active	Cumbria County Council	MPA
Flusco Quarry	Lakeland Minerals Limited	NY 464 293	Limestone	Active	Cumbria County Council	
Ghyll Scaur Quarry	Aggregate Industries UK	SD 171 828	Igneous rock (HSA)	Active	Cumbria County Council	MPA
Goldmire Quarry	Neil Price Construction Services Limited	SD 219 739	Limestone	Active	Cumbria County Council	
Hartley Quarry	CEMEX RMC (UK) Ltd	NY 787 083	Limestone	Inactive	Cumbria County Council	MPA
Helbeck Quarry	Sherburn Stone Company Ltd	NY 799 158	Limestone	Active	Cumbria County Council	BAA
High House Quarry (Highfield)	D A Harrison	NY 511 252	Sand and gravel	Active	Cumbria County Council	

3 Cumbria

Site name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
Holme Park Quarry	Aggregate Industries UK	SD 536 788	Limestone	Active	Cumbria County Council	MPA
Holmescales Quarry	Aggregate Industries UK	SD 556 869	Sandstone (HSA)	Inactive	Cumbria County Council	MPA
Kendal Fell Quarry	Mr Pennington	SD 502 925	Limestone	Inactive	Cumbria County Council/Lake District National Park Authority	
Kirkhouse Quarry	Lakeland Minerals Limited	NY 564 601	Sand and gravel	Active	Cumbria County Council	
Low Gelt Quarry	Hanson Quarry Products Europe Limited	NY 512 552	Sand	Active	Cumbria County Council	MPA
Low Plains	Lafarge Tarmac Limited	NY 490 410	Sand and gravel	Active	Cumbria County Council	MPA
Moota Quarry	CEMEX RMC (UK) Ltd	NY 148 361	Limestone	Active	Cumbria County Council	MPA
Overby No. 2 Sand Pit	Thomas Armstrong Limited	NY 125 470	Sand	Active	Cumbria County Council	BAA
Peel Place Quarry	Tendley Quarries	SD 069 011	Sand and gravel	Active	Cumbria County Council	
Roan Edge Quarry	CEMEX RMC (UK) Ltd	SD 584 926	Sandstone (HSA)	Active	Cumbria County Council	MPA
Roosecote Sand Pit	L & W Wilson (Endmoor) Ltd	SD 224 687	Sand and gravel	Active	Cumbria County Council	
Sandside Quarry	Lafarge Tarmac Limited	SD 482 807	Limestone	Active	Cumbria County Council	MPA
Shap Beck Quarry	Hanson Quarry Products Europe Limited	NY 550 181	Limestone	Active	Extraction in Lake District National Park Authority	MPA
Shap Blue Quarry and Works	CEMEX RMC (UK) Ltd	NY 564 106	Igneous rock	Active	Extraction in Lake District National Park Authority	MPA

Site name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
Shapfell Limestone Quarry	Tata Steel UK Limited	NY 587 138	Limestone	Active	Cumbria County Council	
Silvertop Quarry	W & M Thompson (Quarries) Ltd	NY 586 602	Limestone	Active	Cumbria County Council	
Snowhill Quarry No. 1 & No. 2	Snowhill Quarries	SD 280 387	Limestone (waste sold as secondary aggregate)	Active	Cumbria County Council	
Stainton Quarry	Lafarge Tarmac Limited	SD 246 729	Limestone	Active	Cumbria County Council	MPA
Tendley Quarry	Tendley Quarries	NY 088 288	Limestone	Active	Cumbria County Council	

Monitoring of planning applications

Table 3.6 Planning applications for primary aggregate extraction determined 1 January to 31 December 2013

	Aggregate crushed rock			Land-won aggregate sand and gravel		
	Granted (mt)	Refused (mt)	No of applications	Granted (mt)	Refused (mt)	No of applications
Cumbria CC	-	-	-	-	-	1
Total	**-**	**-**	**-**	**-**	**-**	**1**

Table 3.7 Planning applications for primary aggregate extraction pending as at 31 December 2013

	Aggregate crushed rock		Land-won aggregate sand and gravel	
	Resource (mt)	No. of applications	Resource (mt)	No. of applications
Cumbria CC	0.52mt	1	-	-
Total	**0.52mt**	**1**	**-**	**-**

3 Cumbria

Table 3.8 Planning application details for primary aggregate extraction determined and pending 1 January to 31 December 2013

MPA	Site	Applicant	Application No.	Mineral	Area of application (ha)	Resource (mt)	Extension/new quarry	Decision/date
Cumbria CC	Roosecote Sand Pit	Holker Estates Co Ltd	6/13/9009	Sand	18.4ha	-	Extension of time	Granted 06.09.2013
Cumbria CC	Shapfell Quarry	Tata Steel	3/08/9020	Limestone	25.8ha	0.52mt	Extension (deepening of quarry)	Pending

Monitoring of Development Plan progress

Table 3.9 Development Plan progress in Cumbria as at 31 December 2013

MPA	Local Plan		
	Local Development Scheme	Statement of Community Involvement	Local Plan/Development Plan Document
Cumbria County Council	Adopted March 2009	Adopted January 2006	Minerals and Waste Core Strategy Adopted April 2009
Lake District National Park Authority	First adopted March 2005	Adopted June 2006	Lake District National Park Core Strategy Adopted October 2010

Environment Act 1995: Review of aggregate mineral planning permissions

Table 3.10 Environment Act 1995 - summary of aggregate mineral review sites as at 31 December 2013

MPA	Phase I						Phase II						Dormant		
	Original	Lapsed	Submitted	Determined	With SoS	High Court	Original	Lapsed	Submitted	Determined	With SoS	High Court	Original	Submitted	Determined
Cumbria	7			7			1						7	1	

4 Greater Manchester, Merseyside and Warrington

4.1 The metropolitan boroughs of Greater Manchester (Bolton, Bury, Manchester City, Oldham, Rochdale, Salford, Tameside, Trafford and Wigan) are represented by the Minerals and Waste Planning Unit and the metropolitan boroughs of Merseyside (Knowsley, Liverpool City, Sefton, St Helens and Wirral) are represented by the Merseyside Environment Advisory Service. Halton and Warrington deal with all mineral planning issues as individual authorities, although Halton does not currently have any permitted primary aggregate sites.

Aggregate crushed rock sales, reserves and landbank

4.2 Sales of aggregate crushed rock reduced during the 2013 monitoring period by 48 per cent from 0.81mt in 2012 to 0.42mt. The sales figure is however in line with previous sales patterns experienced between 2009 - 2011 and is an indication of the current instability in the market.

4.3 Reserves of crushed rock aggregate increased by 1.2 per cent from 20.06mt as at 31 December 2012 to 20.3mt. The landbank as at 31 December 2013 also increased to 15.4 years from 15.2 years as at 31 December 2012 and remains in excess of the minimum 10 year requirement as expressed in the NPPF. However, it should be noted that this increase is due to the incorrect reporting of reserve levels at one site in previous years and does not therefore reflect a new increase.

Table 4.1 Greater Manchester, Merseyside and Warrington aggregate crushed rock landbank as at 31 December 2013

	Landbank as at 31.12.2012	Permitted reserves as at 31.12.2013 (mt)	Annual apportionment requirement 2005-2020 (mt)	Landbank as at 31.12.2013 (years)
Greater Manchester, Merseyside, and Warrington	15.2 years	20.3mt	1.32mt	15.4 years

Aggregate sand and gravel sales, reserves and landbank

4.4 Total sales of aggregate sand and gravel increased by 20 per cent during the monitoring period from 0.45mt in 2012 to 0.54mt. This increase is due to the 43 per cent rise in landings of marine dredged sand and gravel from 0.21mt in 2012 to 0.30mt. Sales of land won aggregate sand and gravel remained at 2011 levels for the third consecutive year indicating a steady demand and supply pattern in this sub-region in recent years.

4.5 Reserves of land-won sand and gravel fell by 0.25mt in line with the sales figure of 0.24mt for the monitoring period. The landbank for aggregate land-won sand and gravel also reduced by approximately 6 months to 9.9 years as at 31 December 2013. This remains in excess of the 7 year minimum requirement expressed in the NPPF and will continue to be monitored through both the North West AWP Annual Monitoring Reports and the sub-region's Local Aggregate Assessment.

Table 4.2 Greater Manchester, Merseyside and Warrington aggregate land-won sand and gravel landbank as at 31 December 2013

	Landbank as at 31.12.2012	Permitted reserves as at 31.12.2013 (mt)	Annual apportionment requirement 2005-2020 (mt)	Landbank as at 31.12.2013 (years)
Greater Manchester, Merseyside, and Warrington	10.5 years	4.27mt	0.43mt	9.9 years

Table 4.3 Greater Manchester, Merseyside and Warrington aggregate crushed rock sales and reserves 1998-2013 (million tonnes)

Monitoring period	AM98	AM99	AM00	AM01	AM02	AM03	AM04	AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Aggregate crushed rock sales																
Sandstone	1.9	1.8	1.4	1.4	1.3	1.4	1.5	1.2	1.54	1.1	0.69	0.30	0.29	0.36	0.81	0.42
Total sales	**1.9**	**1.8**	**1.4**	**1.4**	**1.3**	**1.4**	**1.5**	**1.2**	**1.54**	**1.1**	**0.69**	**0.30**	**0.29**	**0.36**	**0.81**	**0.42**
Aggregate crushed rock reserves																
Sandstone	35.33	32.0	30.9	30.2	27.7	22.6	22.5	23.69	25.54	24.86	17.36	17.23	17.01	20.26	20.06	20.3
Total reserves	**35.33**	**32.0**	**30.9**	**30.2**	**27.7**	**22.6**	**22.5**	**23.69**	**25.54**	**24.86**	**17.36**	**17.23**	**17.01**	**20.26**	**20.06**	**20.3**

Table 4.4 Greater Manchester, Merseyside and Warrington aggregate sand and gravel sales and reserves 1998-2013 (million tonnes)

Monitoring period	AM98	AM99	AM00	AM01	AM02	AM03	AM04	AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Aggregate sand and gravel sales																
Land-won	0.3	0.24	0.31	0.23	0.4	0.5	0.5	0.4	0.4	0.3	0.44	0.37	0.22	0.24	0.24	0.24
Marine dredged	0.23	0.24	0.22	0.25	0.33	0.32	0.48	0.52	0.49	0.53	0.41	0.30	0.26	0.24	0.21	0.30
Total sales	**0.53**	**0.48**	**0.53**	**0.48**	**0.73**	**0.82**	**0.98**	**0.92**	**0.89**	**0.83**	**0.85**	**0.67**	**0.48**	**0.48**	**0.45**	**0.54**
Aggregate land-won sand and gravel reserves																
Land-won	5.36	7.67	7.1	6.7	7.7	6.7	6.3	8.91	9.89	5.15	5.8	6.1	4.85	4.76	4.52	4.27
Total reserves	**5.36**	**7.67**	**7.1**	**6.7**	**7.7**	**6.7**	**6.3**	**8.91**	**9.89**	**5.15**	**5.8**	**6.1**	**4.85**	**4.76**	**4.52**	**4.27**

Table 4.5 Greater Manchester, Merseyside and Warrington aggregate sites and wharves surveyed 2013

Site name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
Sites						
Astley Moss	Breedon Aggregates	SJ 371 500	Sand and gravel	Active	Salford City Council	MPA/BAA
Bold Heath Quarry	D Morgan Plc	SJ 530 885	Sandstone	Inactive	St Helens Council	
Buckton Vale Quarry	W Maher & Sons	SD 992 016	Sandstone	Inactive	Tameside Metropolitan Borough Council	
Fletcher Bank Quarry	Marshalls Mono Ltd	SD 804 170	Sandstone	Active	Bury Metropolitan Borough Council	MPA/BAA
Harrop Edge Quarry	Chartrange (Quarry Products)	SJ 982 959	Sandstone	Inactive	Tameside Metropolitan Borough Council	
Harwood Quarry	Booth Ventures	SD 747 124	Sandstone	Active	Bolton Council	
Montcliffe Quarry	Armstrongs Aggregates Ltd	SD 656 124	Sandstone	Active	Bolton Council	
Morley's Hall Quarry	Casey	SJ 685 990	Sand and gravel	Active	Wigan Council	
Offerton Quarry	Offerton Sand and Gravel	SJ 928 893	Sand and gravel	Closed[(1)]	Stockport Metropolitan Borough Council	
Pilkington Quarry	Armstrongs Aggregates Ltd	SD 622 121	Sandstone	Inactive	Bolton Council	
Southworth Quarry	Gaskell Bros (WM&C) Ltd	SJ 619 940	Sandstone	Active	Warrington Borough Council	
Wharves						
Garston Wharf	Hanson Quarry Products Europe Limited	SJ 397 837	Sand	Active	Liverpool City Council	MPA
Mersey Wharf	Eastham Sand and Gravel		Sand and gravel	Active	Wirral Metropolitan Borough Council	

Site name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
Port of Liverpool (Seaforth Docks)	Aggregate Industries		Crushed rock (imports from Glensanda Quarry)	Active	Sefton Metropolitan Borough Council	

1. Active for recycled aggregates

Monitoring of planning applications

Table 4.6 Planning applications for primary aggregate extraction determined 1 January to 31 December 2013

	Aggregate crushed rock			Land-won aggregate sand and gravel		
	Granted (mt)	Refused (mt)	No of applications	Granted (mt)	Refused (mt)	No of applications
Greater Manchester	-	-	-	-	-	-
Merseyside	-	-	-	-	-	-
Warrington	-	-	-	-	-	-
Total	**-**	**-**	**-**	**-**	**-**	**-**

Table 4.7 Planning applications for primary aggregate extraction pending as at 31 December 2013

	Aggregate crushed rock		Land-won aggregate sand and gravel	
	Resource (mt)	No. of applications	Resource (mt)	No. of applications
Greater Manchester	-	-	-	-
Merseyside	-	-	-	-
Warrington	-	-	-	-
Total	**-**	**-**	**-**	**-**

Table 4.8 Planning application details for primary aggregate extraction determined and pending 1 January to 31 December 2013

MPA	Site	Applicant	Application No.	Mineral	Area of application (ha)	Resource (mt)	Extension/new quarry	Decision/date
*** No relevant applications received during the monitoring period ***								

Monitoring of Development Plan progress

Table 4.9 Development Plan progress in Greater Manchester, Merseyside and Warrington as at 31 December 2013

MPA	Local Plan		
	Local Development Scheme	Statement of Community Involvement	Local Plan/Development Plan Document
Bolton Council	Updated 2012	Adopted February 2011	Core Strategy adopted March 2011
Bury Metropolitan Borough Council	Updated November 2013	Adopted August 2013	Submitted for Examination December 2013
Halton Borough Council	Adopted March 2007 - revised March 2009	Adopted September 2013	Site Allocations and Development Management Local Plan Submission Spring 2015
Knowsley Metropolitan Borough Council	July 2013	Adopted 2007	Main Modifications consultation December 2014
Liverpool City Council	Adopted February 2013	Adopted June 2013	Publication Draft Autumn 2015
Manchester City Council	Updated February 2012	Adopted January 2007	Adopted July 2012
Oldham Metropolitan Borough Council	Updated December 2013	Adopted July 2010	Joint Core Strategy adopted November 2011
Rochdale Borough Council	Adopted August 2012	Adopted October 2010	Examination Hearing Sessions October 2013
Salford City Council	Updated February 2013	Adopted January 2010	Local Plan Sites Consultation January – March 2014
Sefton Metropolitan Borough Council	Adopted 2009 (update in progress)	Adopted February 2011	Publication Draft January 2015
St Helens Council	Adopted October 2012	Adopted May 2012	Core Strategy adopted 2011
Stockport Metropolitan Borough Council	Updated March 2012	Adopted July 2010	Core Strategy adopted March 2011
Tameside Metropolitan Borough Council	Updated July 2012	Adopted July 2006	Joint Core Strategy Preferred Options consultation January

MPA	Local Plan		
	Local Development Scheme	Statement of Community Involvement	Local Plan/Development Plan Document
			2013
Trafford Council	Updated November 2009	Adopted February 2010	Core Strategy adopted January 2012
Warrington Borough Council	Adopted March 2007	Adopted March 2006	Local Plan Core Strategy Adopted July 2014
Wigan Council	Adopted August 2013	Adopted August 2013	Adopted September 2013
Wirral Metropolitan Borough Council	Adopted July 2013	Adopted December 2006 (revision in progress)	Consultation on proposed modifications January - February 2015

4.6 The Greater Manchester Minerals Plan was adopted in April 2013 covering all of the Greater Manchester authorities.

Environment Act 1995: Review of aggregate mineral planning permissions

Table 4.10 Environment Act 1995 - summary of aggregate mineral review sites as at 31 December 2013

MPA	Phase I						Phase II						Dormant		
	Original	Lapsed	Submitted	Determined	With SoS	High Court	Original	Lapsed	Submitted	Determined	With SoS	High Court	Original	Submitted	Determined
Greater Manchester, Merseyside and Warrington	10	5	1	4			1			1			18		1

5 Lancashire

5.1 For the purposes of annual monitoring, the authorities of Blackpool and Blackburn with Darwen are included within the Lancashire sub-region.

Aggregate crushed rock sales, reserves and landbank

5.2 Sales of crushed rock aggregate fell during the monitoring period by 11.9 per cent from 2.44mt in 2012 to 2.15mt, although this is roughly in line with patterns experienced since 2008 this is the lowest recorded figure for over 10 years. The largest fall was in sales of sandstone where sales fell by 28.7 per cent from 0.94mt in 2012 to 0.67mt, however sales remain higher than in 2009 and 2010. The fall in sales of limestone was marginal at 1.3 per cent from 1.50mt in 2012 to 1.48mt.

5.3 Total crushed rock reserves fell slightly by 1.4 per cent, in line with what would have been expected from 132.1mt as 31 December 2012 to 130.21mt. Reserves of limestone fell by 2.4 per cent during 2013 whilst reserves of sandstone fell by only 0.5 per cent. The landbank for crushed rock reduced during the 2013 monitoring period from 31.15 years as at 31 December 2012 to 30.7 years, far in excess of the ten year minimum requirement set out in the NPPF.

Table 5.1 Lancashire aggregate crushed rock landbank as at 31 December 2013

	Landbank as at 31.12.2012	Permitted reserves as at 31.12.2013 (mt)	Annual apportionment requirement 2005-2020 (mt)	Landbank as at 31.12.2013 (years)
Lancashire	31.15 years	130.21mt	4.24mt	30.7 years

Aggregate sand and gravel sales, reserves and landbank

5.4 Land-won aggregate sand and gravel sales remained at 0.36mt for the second consecutive monitoring period. Sales have been relatively stable since 2005, apart from a decline in 2011, indicating a potentially stable market for this material. Reserves of sand and gravel have decreased by 2.2 per cent from 8.36mt as at 31 December 2012 to 8.18mt.

5.5 The landbank for aggregate sand and gravel fell slightly during the monitoring period from 19 years as at 31 December 2012 to 18.6 years, in line with the marginal drop in reserves. The landbank remains far in excess of the minimum seven year requirement expressed in the NPPF.

Table 5.2 Lancashire aggregate land-won sand and gravel landbank as at 31 December 2013

	Landbank as at 31.12.2012	Permitted reserves as at 31.12.2013	Annual apportionment requirement 2005-2020 (mt)	Landbank as at 31.12.2013 (years)
Lancashire	19 years	8.18mt	0.44mt	18.6 years

Table 5.3 Lancashire aggregate crushed rock sales and reserves 1998-2013 (million tonnes)

Monitoring period	AM98	AM99	AM00	AM01	AM02	AM03	AM04	AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Aggregate crushed rock sales																
Limestone	2.7	2.6	2.7	2.6	2.7	2.6	2.7	2.5	2.6	3.0	2.48	1.86	1.59	1.55	1.50	1.48
Sandstone	2.1	1.8	1.7	1.9	2.2	1.6	1.3	1.2	1.0	1.26	0.98	0.66	0.63	0.86	0.94	0.67
Total sales	**4.8**	**4.4**	**4.4**	**4.5**	**4.9**	**4.2**	**4.0**	**3.7**	**3.6**	**4.26**	**3.46**	**2.52**	**2.22**	**2.41**	**2.44**	**2.15**
Aggregate crushed rock reserves																
Limestone	59.4	56.8	54.1	53.9	59.3	57.5	54.7	50.32	77.0	71.4	52.6	67.63	65.61	62.5	60.64	59.16
Sandstone	86.0	84.0	73.5	71.1	70.3	68.7	79.8	64.5	75.1	74.1	70.35	69.14	67.63	66.0	71.42	71.05
Total reserves	**145.4**	**140.8**	**127.6**	**125.0**	**129.6**	**126.2**	**134.5**	**114.82**	**152.1**	**145.5**	**122.95**	**136.77**	**133.24**	**128.5**	**132.1**	**130.21**

Table 5.4 Lancashire aggregate sand and gravel sales and reserves 1998-2013 (million tonnes)

Monitoring period	AM98	AM99	AM00	AM01	AM02	AM03	AM04	AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Aggregate land-won sand and gravel sales																
Land-won sand and gravel	0.66	0.48	0.34	0.5	0.5	0.46	0.44	0.38	0.34	0.33	0.31	0.42	0.37	0.25	0.36	0.36
Marine dredged sand and gravel	~	0.05	0.07	0.18	0.13	0.11	0.1	0.12	0.1	0.12	0.01	-	-	-	-	-
Total sales	**0.66**	**0.53**	**0.41**	**0.68**	**0.63**	**0.57**	**0.54**	**0.5**	**0.44**	**0.45**	**0.32**	**0.42**	**0.37**	**0.25**	**0.36**	**0.36**
Aggregate land-won sand and gravel reserves																
Land-won sand and gravel	7.38	7.0	6.4	4.6	4.0	3.54	3.24	4.4	5.21	5.4	10.3	8.98	8.81	8.6	8.36	8.18
Total reserves	**7.38**	**7.0**	**6.4**	**4.6**	**4.0**	**3.54**	**3.24**	**4.4**	**5.21**	**5.4**	**10.3**	**8.98**	**8.81**	**8.6**	**8.36**	**8.18**

5 Lancashire

Table 5.5 Lancashire aggregate sites surveyed 2013

Site name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
Back Lane Quarry	Aggregate Industries UK	SD 510 695	Limestone	Active	Lancashire County Council	MPA
Bankfield Quarry	Lafarge Tarmac Limited	SD 755 435	Limestone	Active	Lancashire County Council	MPA
Bellman Quarry	Hanson Cement Ltd	SD 761 428	Limestone	Active	Lancashire County Council	MPA
Bradley's Sand Pit	J A Jackson	SD 512 340	Sand and gravel	Active	Lancashire County Council	
Brinscall Quarry	Hanson Aggregates	SD 633 421	Sandstone	Active	Lancashire County Council	
Dalton Brickworks Quarry	Ibstock Brick Limited	SD 501 091	Clay and shale(1)	Active	Lancashire County Council	
Dunald Mill	Lafarge Tarmac Limited	SD 511 679	Limestone	Active	Lancashire County Council	MPA
Foreshore St Annes	William Rainford	SD 313 300	Sand and gravel	Active	Lancashire County Council	
German Lane Quarry	P Casey Enviro Ltd	SD 562 171	Sand	Inactive	Lancashire County Council	
Jamestone Quarry	Aggregate Industries UK	SD 758 233	Sandstone	Active	Lancashire County Council	MPA
Lanehead	Lafarge Tarmac Limited	SD 752 437	Limestone	Active	Lancashire County Council	MPA
Leapers Wood	Lafarge Tarmac Limited	SD 515 694	Limestone	Active	Lancashire County Council	MPA
Leeming	Brown Bros (Longridge) Ltd	SD 683 406	Limestone	Active	Lancashire County Council	
Lower Brockholes	Hargreaves Quarries Ltd	SD 578 304	Sand and gravel	Active	Lancashire County Council	
Lydiate Lane Quarry	Wheale Limited	SD 554 239	Sand and gravel	Active	Lancashire County Council	

Site name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
Runshaw	Lafarge Tarmac Limited	SD 543 195	Sand	Active	Lancashire County Council	MPA
Sandons Farm	Rigshaw Limited	SD 592 131	Sand and gravel	Active	Lancashire County Council	
Scout Moor	Marshalls Natural Stone	SD 814 190	Sandstone	Active	Lancashire County Council	MPA/BAA
Sharples Farm	RMC Aggregates Ltd	SD 472 428	Sand and gravel	Active	Lancashire County Council	
Tong Farm	J Laycock	SD 880 225	Clay and shale	Active	Lancashire County Council	
Waddington Fell	Armstrongs Aggregates Ltd	SD 718 479	Sandstone	Active	Lancashire County Council	MPA
Whinney Hill Quarry	Park Royale Aggregates	SD 756 30	Sandstone	Active	Lancashire County Council	
Whitworth Quarry	Fairhurst Stone	SD 875 202	Sandstone	Active	Lancashire County Council	MPA

1. Figures for clay and shale are not reported, site surveyed for potential aggregate sales

Monitoring of planning applications

Table 5.6 Planning applications for primary aggregate extraction determined 1 January to 31 December 2013

	Aggregate crushed rock			Land-won aggregate sand and gravel		
	Granted (mt)	Refused (mt)	No of applications	Granted (mt)	Refused (mt)	No of applications
Lancashire	*** No relevant planning applications received during the monitoring period ***					
Total						

Table 5.7 Planning applications for primary aggregate extraction pending as at 31 December 2013

	Aggregate crushed rock		Land-won aggregate sand and gravel	
	Resource (mt)	No. of applications	Resource (mt)	No. of applications
Lancashire	*** No relevant planning applications received during the monitoring period ***			
Total				

Table 5.8 Planning application details for primary aggregate extraction determined and pending 1 January to 31 December 2013

MPA	Site	Applicant	Application No.	Mineral	Area of application (ha)	Resource (mt)	Extension/new quarry	Decision/date
*** No relevant planning applications received during the monitoring period ***								

Monitoring of Development Plan progress

Table 5.9 Development Plan progress in Lancashire authorities as at 31 December 2013

MPA	Local Plan		
	Local Development Scheme	Statement of Community Involvement	Local Plan/Development Plan Document
Blackburn with Darwen	Adopted 2007	Adopted August 2006	Minerals and Waste Core Strategy Adopted 2009 Minerals and Waste Site Allocations and Development Management Policies Local Plan Adopted 2013
Blackpool Council	Adopted March 2007	Adopted June 2007	
Lancashire County Council	Adopted April 2007	Adopted May 2006	

Environment Act 1995: Review of aggregate mineral planning permissions

Table 5.10 Environment Act 1995 - summary of aggregate mineral review sites as at 31 December 2013

MPA	Phase I						Phase II						Dormant		
	Original	Lapsed	Submitted	Determined	With SoS	High Court	Original	Lapsed	Submitted	Determined	With SoS	High Court	Original	Submitted	Determined
Lancashire	11			11			2	1		1			8		

5.6 Permission was allowed to lapse on one Phase II site as it was superseded by modern planning permission.

6 Marine dredged aggregate

6.1 The Crown Estate along with the British Marine Aggregate Producers Association (BMAPA) publish reserve and dredge statistics on an annual basis. The report 'Marine Aggregates The Crown Estate Licences Summary of Statistics 2013' provides summary statistics relating to the dredging and landing of marine dredged aggregate sand. Reserve information is published by The Crown Estate in the Capability and Portfolio report. In addition The Crown Estate and BMAPA publish a summary of the extraction activity in the Area Involved Report, the 16th of which was published in September 2014. Table 6.1 provides detail of the north west dredging areas, Tables 6.2 and 6.3 provide removal and landing statistics for the north west.

6.2 During the 2013 monitoring period there were four active dredging areas operating in water off the north west coast.

Table 6.1 North West marine licences and dredging areas 2013

Area no:	Area name	Licence type	Licence holder	Operational status 2013
331	Morecambe Bay	Active dredge area / application area	Tarmac Marine Dredging Limited	Active
392	Hilbre Swash	Active dredge area / application area	Tarmac Marine Dredging Limited	Active
393	Hilbre, Swash	Active dredge area / application area	Norwest Sand & Ballast Co. Ltd	Active
457	Liverpool Bay	Active dredge area / application area / Option area	Westminster Gravels Ltd	Active

6.3 A total of 858,813 tonnes of material was removed from permitted dredging areas off the north west coast during the 2013 monitoring period, the highest level of removal for over nine years representing an 86 per cent increase in removal levels from 2012. This increase is due to the removal of 480,000 tonnes of beach nourishment material which served a specific project and does not represent an annual requirement for the material. The amount of primary aggregate removed also increased during the monitoring period by 33 per cent to 378,813 tonnes bringing removal rates back to levels experienced in 2008.

6.4 Of the total 858,813 tonnes of material removed only 369,201 tonnes was landed at permitted landing points within the north west. However, landing within the north west (excluding landings at Penrhyn) have increased in line with the rise in removal rates, rising by 46 per cent from 215,359 in 2012 to a total of 315,501 during 2013. The largest increase was in landings at Liverpool wharves where landings rose by 48 per cent from 205,528 in 2012 to 303,696 during 2013. It should also be noted that large quantities of imported crushed rock from Glensanda Quarry are also landed at Port of

Liverpool by Aggregate Industries. However, this material is not included in any of the calculations within this report.

6.5 The 'Marine Aggregates Capability and Portfolio document 2014' reports that there are currently 17.63mt of primary marine aggregate reserves in the north west dredging areas, which when compared to the 10 year average annual offtake rate would provide a reserve life of approximately 34.76 years.

Table 6.2 Marine dredged aggregate removed from off the north west coast 2005-2013 (tonnes)

North west		AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Primary	Primary aggregate	611,983	608,134	633,405	432,889	271,598	307,509	314,098	285,368	378,813
	Rivers & misc	124,506	111,687	109,399	87,787	92,263	39,458	0	0	0
Secondary	Beach nourishment	0	0	0	0	0	0	0	0	480,000
	Contract fill	0	0	0	207,506	276,190	9,000	0	309,300	0
Total aggregates removed		**736,489**	**720,001**	**742,804**	**728,182**	**840,051**	**355,967**	**314,098**	**594,668**	**858,813**
Authorised limit of removal (mt/pa)		**1.38**	**1.38**	**1.38**	**1.38**	**1.26**	**1.24**	**1.33**	**1.43**	**994,547**

Table 6.3 Marine dredged aggregate landed at north west coastal wharfs 1999-2013 (tonnes)

Landing Point	AM99	AM00	AM01	AM02	AM03	AM04	AM05	AM06	AM07	AM08	AM09	AM10	AM11	AM12	AM13
Barrow	~	~	30,000	42,835	42,835	21,049	20,206	22,321	14,890	23,319	23,111	15,592	12,333	9,831	11,805
Eastham	~	43,046	71,615	74,055	75,000	99,079	124,506	111,687	109,399	87,787	92,263	40,012	-	-	-
Heysham	53,848	75,376	105,982	129,719	105,812	95,550	95,285	138,088	119,767	11,930	-	-	-	-	-
Liverpool	243,882	179,444	253,382	260,258	237,262	385,886	428,842	373,812	428,635	327,094	209,766	223,206	238,880	205,528	303,696
Penrhyn	57,314	61,270	44,951	66,334	51,311	52,307	47,257	46,091	46,002	54,901	27,133	53,088	53,302	62,361	53,700
Total	355,044	359,136	505,930	573,201	512,220	653,871	716,096	691,999	718,693	505,031	352,273	331,898	304,515	277,720	369,201
Total exc Penrhyn	**297,730**	**297,866**	**460,979**	**506,867**	**460,909**	**601,564**	**668,839**	**645,908**	**672,691**	**450,130**	**325,140**	**278,810**	**251,213**	**215,359**	**315,501**

A North West AWP membership

North West Aggregate Working Party Representatives	
North West Aggregate Working Party Chair	Carolyn Williams MWPU, Environment Department, 2nd Floor, Emerson House, Albert Street, Eccles, Manchester M30 0TE carolyn.williams@urbanvision.org.uk
North West Aggregate Working Party Secretary	Natalie Durney-Knight Planning Policy, Cheshire West and Chester Council, 4 Civic Way, Ellesmere Port CH65 0BE nwawp@cheshirewestandchester.gov.uk
Central Government Representatives	
Department for Communities and Local Government	Eamon Mythen Planning for Minerals and Sustainable Waste Management Team, Department for Communities and Local Government, Infrastructure and Environment Division, Third Floor, Fry Building, 2 Marsham Street, London SW1P 4DF Eamon.Mythen@communities.gsi.gov.uk
Highways Agency (Manchester)	Lindsay Alder Highways Agency, City Tower, Piccadilly Plaza, Manchester M1 4BE lindsay.alder@highways.gsi.gov.uk
Local Government (Mineral Planning Authority) Representatives	
Cheshire East Council	Emma Williams Development Management, Cheshire East Council, Earle Street, Crewe, Cheshire CW1 2BJ emma.williams@cheshireeast.gov.uk
Cheshire West and Chester Council	Natalie Durney-Knight Planning Policy, Cheshire West and Chester Council, 4 Civic Way, Ellesmere Port CH65 0BE nwawp@cheshirewestandchester.gov.uk
Cumbria County Council	Sue Brett Minerals & Waste Planning Policy Team, Cumbria County Council, County Offices, Busher Walk, Kendal LA9 4RQ sue.brett@cumbria.gov.uk
Environment Advisory Service (Merseyside)	Paul Slinn Merseyside Environmental Advisory Service, 1st Flood Merton House, Stanley Road, Bootle L20 3DL paul.slinn@eas.sefton.gov.uk
Lancashire County Council	Richard Sharples Planning Team: Strategy and Policy, Lancashire County Council, Guild House, Cross Street, Preston PR1 8RD richard.sharples@lancashire.gov.uk

Lake District National Park Authority	Paula Allen Lake District National Park Authority, Murley Moss, Oxenholme Road, Kendal LA9 7RL paula.allen@lakedistrict.gov.uk
Minerals and Waste Planning Unit (Greater Manchester)	Carolyn Williams MWPU, Environment Department, 2nd Floor, Emerson House, Albert Street, Eccles, Manchester M30 0TE carolyn.williams@urbanvision.org.uk
Warrington Borough Council	Kevin Usher Economic Regeneration, Growth and Environment, Planning Policy and Programmes, Warrington Borough Council, New Town House, Buttermarket Street, Warrington WA1 2NH kusher@warrington.gov.uk
Industry Representatives	
Aggregate Industries UK Limited	Geoff Storey Aggregate Industries UK, High Roads, Nether Kellet, Carnforth, Lancashire LA6 1EA geoff.storey@aggregate.com
British Aggregate Association	Ian Pearson Marshalls Natural Stone Division, Brier Lodge, Southowram, Halifax HX3 9SY ian.pearson@marshalls.co.uk
British Marine Aggregate Producers Association	Andrew Bellamy BMAPA, UMA House, Shopwhyke Road, Chichester PO20 2AD andrew.bellamy@tarmac.co.uk
CEMEX UK	Mark Kelly CEMEX UK Operations Limited, Coldharbour Lane, Thorpe, Egham, Surrey TW20 8TD mark.kelly@cemex.com
Hanson Heidelberg Cement Group	Tom Brown Hanson Aggregates, Clifford House, Wetherby Business Park, York Road, Wetherby, West Yorkshire LS22 7NS tom.brown@hanson.biz
Mineral Products Association	Ken Hobden Mineral Products Association, Gillingham House, Gillingham Street, London SW1V 1HU ken.hobden@mineralproducts.org
Sibelco UK Ltd	Nick Horsley Sibelco UK Ltd, Brookside Hall, Congleton Road, Sandbach, Cheshire CW11 4TF nick.horsley@sibelco.com
Lafarge Tarmac Limited	Grahame Fyles Lafarge Tarmac Limited, Tunstead House, Buxton, Derbyshire SK17 8TG grahame.fyles@lafargetarmac.com

B Acronyms

Acronym	
AGMA	Association of Greater Manchester Authorities
AM	Annual Monitoring
AMR	Annual Monitoring Report
AWP	Aggregate Working Party
BAA	British Aggregates Association
BMAPA	British Marine Aggregate Producers Association
CDEW	Construction, Demolition and Excavation Waste
CLG	Communities and Local Government
HSA	High Specification Aggregate
MPA	Mineral Products Association
MPAs	Mineral Planning Authorities
NCG	National Co-Ordinating Group
NPPF	National Planning Policy Framework
NWAWP	North West Aggregate Working Party

C Glossary

Apportionment - currently set by the 'National and regional guidelines for aggregate provision in England 2005-2020', a specified amount of aggregates to be produced annually on a sub-regional basis.

Core Strategy/Local Plan - a plan setting out the spatial vision for the Local Planning Authority area, the spatial objectives and strategic policies to deliver that vision.

Duty to co-operate - introduced by the Town & Country Planning (Local Planning) (England) Regulations 2012, requires Local Authorities and other public bodies to co-operate on planning issues.

High Specification Aggregate - natural and artificial coarse aggregates which meet the physical test criteria for Polished Stone Value and Aggregate Abrasion Value.

Licence Application Area - areas which are in the process of being developed for new licence dredge areas. These areas are subject to a full environmental impact assessment and public consultation before permission is granted by the Marine Management Organisation.

Licenced Dredge Area - active licenced dredge areas.

Licence Option Area - awarded by the Crown Estate following a successful tender by a company seeking to develop a new dredging area. The company is permitted to explore the area for viable resources during during a period of 5 years, during which the licence application process must be completed.

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Cheshire West and Chester Council

HQ, 58 Nicholas Street, Chester CH1 2NP
Tel: 0300 123 8 123 Visit: cheshirewestandchester.gov.uk