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**North West Aggregate Working Party
Annual Monitoring Report 2015, incorporating data from
January to December 2015**

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The statistics and statements contained in this report are based on information from a large number of third party sources and are compiled to an appropriate level of accuracy and verification. Readers should use corroborative data before making major decisions based on this information.

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Executive Summary

The North West Aggregate Working Party (AWP) is one of nine similar working parties throughout England and Wales established in the 1970's. The membership of the North West AWP is detailed in Appendix 1. A map showing the Minerals Planning Authorities within the North West AWP is given in Figure 1 below.

This Annual Monitoring (AM) report provides sales and reserve data for the calendar year 1st January – 31st December 2015. The report provides data for each of the sub-regions in the North West:

- Cheshire East and Cheshire West and Chester
- Cumbria
- Greater Manchester, Merseyside, Halton and Warrington
- Lancashire

The North West AWP is not a policy-making body, but is charged with data collection to facilitate planning by Mineral Planning Authorities (MPAs), national government agencies and the industry, and to inform the general reader.

Crushed Rock

- Total Crushed Rock Sales of 7.45mt up 20% on 2014 figures.
- Total Crushed Rock Reserves of 303.3mt up 7% on 2014 figures.

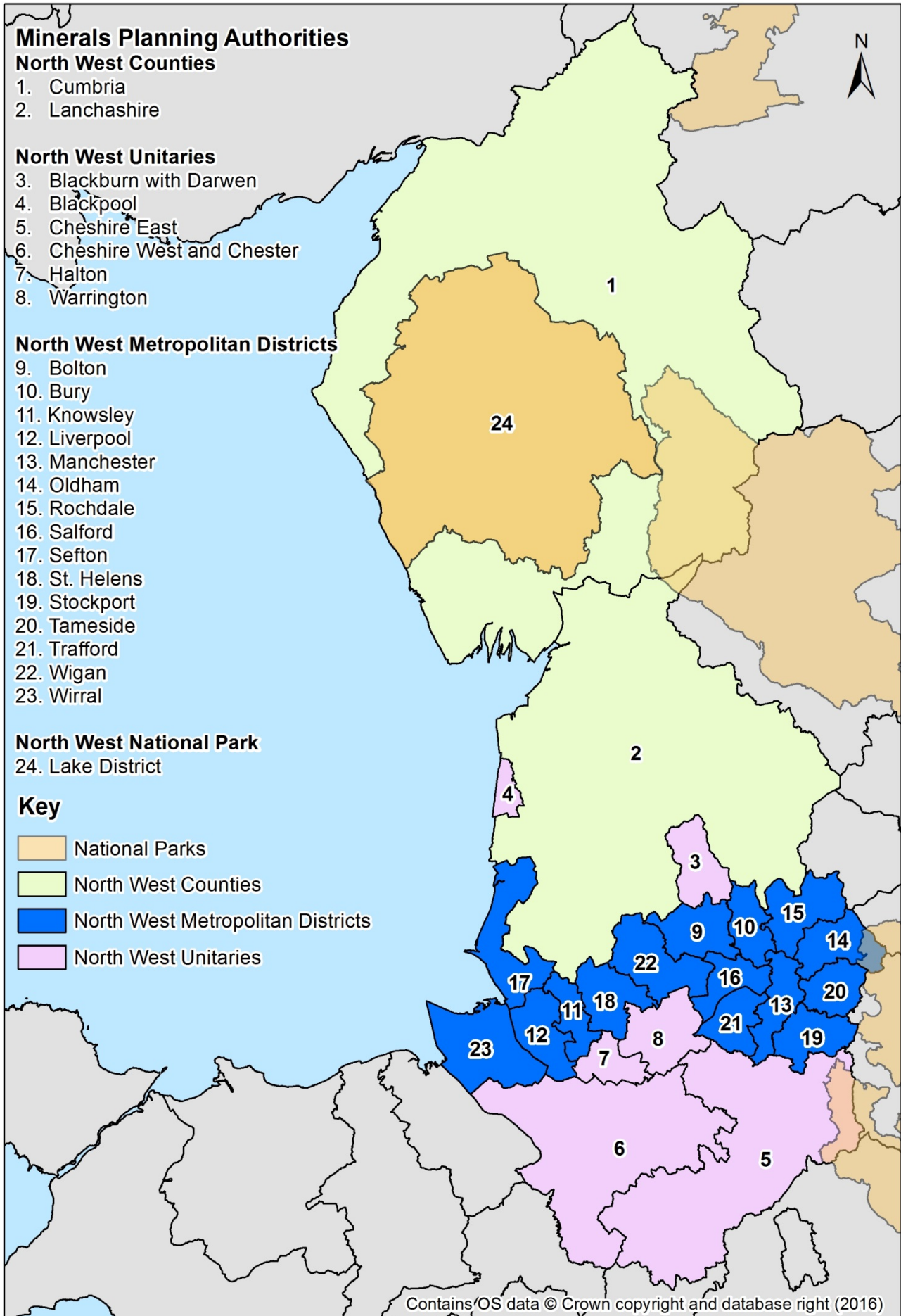
Land-won Sand and Gravel

- Total Land-won Sand and Gravel Sales of 4.71mt up 37.2% on 2014 figures.
- Total Land-won Sand and Gravel Reserves of 41.3mt up 2.3% on 2014 figures.

Landings of Marine-dredged Sand and Gravel

- Total Marine-dredged Sand and Gravel removed was up by 1.52mt, a 293% increase on 2014 figures.
- Landing of Marine-dredged Sand and Gravel was up 0.01mt, a 4.5% increase on 2014 figures.

Figure 1 North West Aggregate Working Party Mineral Planning Authorities 2016



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1. Introduction

- 1.1. This Annual Monitoring Report (AM2016) for the North West Aggregate Working Party (AWP) has been prepared from returns made by the operators of quarries, wharves and rail depots in the North West in response to a party wide survey. The report also puts the findings in the context of the National Planning Policy Framework and the Guidance on the Managed Aggregates Supply System.

Background

- 1.2. The AWP¹ were established in the 1970s to collect and monitor data on aggregates provision as an aid to minerals planning. AWP are joint local government-central government-industry bodies that monitor the supply of, demand for, and reserves of, all aggregates including both primary aggregate and alternative sources in local authority areas. They also consider the implications of supply to, and from, these areas. They are not policy-making bodies, but provide information to facilitate the work of Mineral Planning Authorities (MPAs), national government agencies and the minerals industry. They also feed regional views to the Government through the national forum, the National Coordinating Group (NCG).
- 1.3. The core functions of the AWP, 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.
- 1.4. The AWP operate under contracts between the Secretary of State for Communities and Local Government and the Chairs of the AWP, and receive funding from the Department to prepare papers, reports, and data collations as recommended by the NCG.

¹ Previously known as Regional Aggregate Working Parties but has now changed to reflect national guidelines.

- 1.5. The North West Aggregates Working Party (NWAWP) comprises the following sub-regions:
- Cheshire East and Cheshire West and Chester
 - Cumbria
 - Greater Manchester, Merseyside and Warrington
 - Lancashire
- 1.6. In 2015 the Chairperson of the NWAWP was Carolyn Williams, Group Leader Minerals and Waste Planning Unit representing AGMA. The AWP is also serviced by a Technical Secretary, who for 2015 was Jonathan Evans, Planning Officer, Minerals and Waste Planning Unit. The membership of the North West AWP for 2015 is set out in Appendix 1. No North West AWP meetings were held in 2015.

Planning Policy

The National Planning Policy Framework

- 1.7. The NPPF requires MPAs (amongst other matters) to make provision for a steady and adequate supply of minerals; to define mineral safeguarding areas; to safeguard wharves, rail heads and certain aggregate processing facilities and plant.
- 1.8. The NPPF requires MPAs to participate in an Aggregates Working Party (AWP); to prepare an annual Local Aggregates Assessment (LAA); to make provision for the land won or other elements of their LAA in their mineral plans, taking account of the advice of the AWP and the National Aggregate Coordinating Group (NCG) as appropriate.

Guidance on the Managed Aggregate Supply System (MASS)

- 1.9. AWP's are to produce an annual report on minerals activity in their area, provide technical advice to MPAs on the adequacy of an LAA, and provide an assessment on the position of overall demand and supply in its area, including whether, in its view, the area is making a full contribution towards meeting both national and local needs.

National and Regional Guidelines for Aggregates Provision 2009

- 1.10. The most recent National and Sub National Guidelines are the National and Regional Guidelines for Aggregates Provision in England 2005-2020 published on 29 June 2009. The levels of provision set out in the Guidelines are summarised in Table 1.1 below.

Table 1-1: National and Regional Guidelines for Aggregates Provision in England, 2005 – 2020 (Mt)

New Regions Mt.	Guidelines for land-won production in Region		Assumptions		
	Land-won Sand & Gravel	Land-won Crushed Rock	Marine Sand & Gravel	Alternative Materials (a)	Net Imports to England
South East England	195	25	121	130	31
London	18	0	72	95	12
East of England	236	8	14	117	7
East Midlands	174	500	0	110	0
West Midlands	165	82	0	100	23
South West	85	412	12	142	5
North West	52	154	15	117	55
Yorkshire & the Humber	78	212	5	133	3
North East	24	99	20	50	0
ENGLAND	1028	1492	259	993	136

Report Scope

- 1.11. Data on primary aggregates sales from land-won sand and gravel sites, wharves and rail depots for 2015 has been provided by operators to their respective Minerals Planning Authority (MPA). The MPA then forwarded responses to the AWP technical secretary. An inventory of quarries and wharves and planning decisions is provided within each section. In order to provide an indication of trends, this Annual Report compares data from 2015 with data for earlier years.
- 1.12. The planning context for this report is the National Planning Policy Framework² (NPPF) and Guidance on the Managed Aggregate Supply System³ at the national level, and adopted Local Plans as the overall strategic plan for the area.

² National Planning Policy Framework, DCLG March 2012

³ Guidance on the Managed Aggregate Supply System, DCLG October 2012

2. Development Plans

- 2.1. All of the MPAs in the North West have adopted plans (or saved polices) related to minerals planning, as set out below.

Cheshire East

- 2.2. A revised Local Plan Strategy (LPS) was published and consulted upon in early 2016. A six week examination was subsequently undertaken ending on 20 October 2016. The LPS contains a strategic policy (Policy SE10) that sets out the general approach to planning for mineral provision. The Council intends to prepare a separate DPD on Minerals and Waste which will form part of the overall Local Plan. An initial consultation on minerals and waste issues is anticipated in early 2017 as part of this work.

Cheshire West and Chester

- 2.3. Local Plan (Part One) adopted 29th January 2015. This includes policy ENV 9 on Minerals supply and safeguarding. Local Plan (Part Two) Land Allocations and Detailed Policies consultation ended at the end of September 2016 and the Council are currently analysing responses. A Draft Supplementary Planning Document on Oil and Gas Oil and Gas Exploration, Production and Distribution is currently out to consultation.

Cumbria

- 2.4. Minerals and Waste Local Plan was submitted on 9th September 2016 to PINS; the Inspector is Elizabeth Ord. The hearing sessions are due to begin on Tuesday 29th November 2016 and will run until Wednesday 14th December 2016.

Lake District National Park

- 2.5. The Lake District Local Plan is currently being reviewed as the Core Strategy was adopted in 2010. The plan will contain a policy which sets out the general approach to planning for mineral provision in the National Park.

Greater Manchester

- 2.6. The Greater Manchester Joint Minerals Plan was adopted by the 10 Authorities of Greater Manchester on 26th April 2013. Currently there are no plans to update or

review the plan, however this may change as the Greater Manchester Spatial framework develops.

Merseyside

- 2.7. The Liverpool City Region now has a Combined Authority and will have an elected Mayor from 2017. The Mayor will put in place a statutory Strategic Framework for the City Region which Local Plans will be expected to be in conformity with. In the meantime a new joint study on housing and employment land requirements is being undertaken. Local Plan activity in the reporting period has seen the Local Plan for Sefton go through examination in public and subsequently a process of modification. Adoption of this Plan is expected in 2017. Wirral and Liverpool are expected to submit plans for examination during 2017.

Warrington

- 2.8. The Warrington Local Plan Core Strategy (LPCS) was adopted in July 2014. This Plan did not contain any detailed policies in respect of minerals and waste as the intention was to cover these issues in a separate DPD, which would follow on immediately after the adopted of the LPCS. However, the LPCS was subject to a High Court challenge shortly after adoption, which was successful in quashing the LPCS housing target.
- 2.9. Following the High Court decision in February 2015 and initial evidence base work which confirmed it would not be possible to meet Warrington's development needs within the existing urban area and on green field sites outside of the Green Belt the Council have commenced a review of the Local Plan.
- 2.10. Whilst, the review of the Plan will be focused on the provision of land and level of housing and economic development that can be accommodated within Warrington, taking into account Objectively Assessed Needs (OAN), the opportunity for including Minerals and Waste issues as part of the review of the Local Plan is also being considered.
- 2.11. The Council consult on the scope of the Local Plan Review (Reg 18 Consultation) between the 24th October and 5th December 2016 and aim to have a new Local Plan adopted in late 2018.

Lancashire

- 2.12. Consultation on revised plan due January / February 2017. North West coast connection (tunnelling under Morecambe Bay to provide new National Grid Connection) may provide some aggregates suitable for sale.

3. North West

3.1. Tables 3.1 to 3.4 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 2015.

Total aggregate sales, reserves and landbank

3.2. During the 2015 monitoring period total aggregate sales increased by 26.5% from 9.61mt in 2014 to 12.16mt, bringing sales to their highest levels since 2008 and reducing the sales figure to 0.72 mt below the annual guidelines⁴ for aggregate provision of 12.88mt. Total aggregate reserves increased by 6.4% from 323.52mt as at 31 December 2014 to 344.5mt. This increase in reserves is due to increases in Limestone and Sandstone and Igneous Rock in Lancashire, HSA in Cumbria, and land-won sand and gravel in Cheshire West and Chester.

3.3. The total aggregate landbank for the North West as at 31 December 2015 has increased to 26.7 years, based on an annual requirement of 12.88mt of primary land-won aggregate as set out in the guidelines for aggregate provision.

Table 3-1 North West aggregate landbank as at 31 December 2015

Aggregate	Landbank as at 31.12.2014	Reserves as at 31.12.2015	Annual apportionment requirement 2005-2020	Landbank as at 31.12.2015
Crushed Rock	29.4 years	303.3mt	9.62mt	31.5 years
Land-won sand and gravel	12.3 years	41.3mt	3.26mt	12.6 years
Total aggregate landbank	25.1 years	344.5mt	12.88mt	26.7 years

Aggregate crushed rock sales, reserves and landbank

3.4. Sales of crushed rock aggregate increased by 20.5% from 6.18mt in 2014 to 7.45mt, the highest recorded sales figure since 2008. Limestone, sandstone and igneous rocks and High Specification Aggregate (HSA) sales increased by 32.6%, 1.5% and 10.5% respectively.

3.5. Total reserves of crushed rock aggregate increased by 7% from 323.52mt in 2014 to 344.5mt at 31 December 2015. Reserves of limestone increased by 7.17mt and

⁴ National and regional guidelines for aggregate provision in England 2005 - 2020, Communities and Local Government, June 2009

sandstone and igneous rocks by 6mt and is due to increases in Lancashire's reserve based on reappraisals by operators and a new permission being granted. HSA reserves have increased by 6.86mt and this is due to an increase in Cumbria's reserve due to a new permission being granted.

- 3.6. The crushed rock landbank for the North West as at 31 December 2015 was 31.5 years, in excess of the "at least" 10 year requirement of the NPPF. Landbanks for the sub-regions are detailed in the individual chapters.

Aggregate sand and gravel sales, reserves and landbank

- 3.7. Sales of land-won aggregate sand and gravel increased by 37.2% from 3.43mt in 2014 to 4.71mt in 2015. This is the highest figure for more than 10 years. This increase is due to increase in sales of land-won sand and gravel across each sub-region within the North West. Sales of Marine dredge aggregate sand and gravel increased following a fall during 2014.
- 3.8. Reserves of land-won aggregate sand and gravel also increased by 2.3% from 40.31mt in 2014 to 41.3mt as at 31 December 2015. This increase is due to a reappraisal by the Council of the 2014 data for Cheshire West and Chester's 2014 reserve figure. The sand and gravel landbank for the North West as at 31 December 2014 was 12.6 years, an increase of less than half a year at the end of the 2014 monitoring period. Landbanks for the sub-regions are detailed in the individual chapters.

Table 3-2: North West land-won aggregate sales 2006-2015 (million tonnes)

Monitoring Period	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aggregate Crushed Rock Sales										
Limestone	5.30	5.80	5.18	3.77	4.05	3.39	3.53	3.10	3.71	4.92
Sandstone and igneous rock	2.86	2.92	2.09	1.34	1.63	1.29	1.72	1.46	2.08	2.11
High Specification Aggregate (HAS)	0.69	0.70	0.75	0.78	0.59	0.60	0.55	0.41	0.38	0.42
Total Crushed Rock Sales	8.85	9.42	8.02	5.89	6.27	5.28	5.80	4.97	6.18	7.45
Aggregate Sand and Gravel Sales										
Land-won sand and gravel	2.97	3.00	2.69	2.18	2.29	1.87	2.01	1.91	3.43	4.71
Total sand and gravel sales	2.97	3.00	2.69	2.18	2.29	1.87	2.01	1.91	3.43	4.71
Total Aggregate Sales	11.82	12.42	10.71	8.07	8.56	7.15	7.81	6.88	9.61	12.16

Table 3-3: North West land-won aggregate reserves 2006-2015 (million tonnes)

Monitoring Period	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aggregate Crushed Rock Reserves										
Limestone	174.70	173.90	162.65	171.53	175.40	166.30	160.20	158.33	145.54	152.71
Sandstone and igneous rock	155.30	153.20	141.10	138.60	153.30	115.36	119.20	105.90	126.73	132.73
High Specification Aggregate (HAS)	9.55	19.00	18.20	17.26	13.16	13.80	13.70	11.53	10.98	17.84
Total Crushed Rock Reserves	339.60	346.10	321.95	327.39	341.86	295.46	293.10	275.76	283.21	303.3
Aggregate Land-won Sand and Gravel Reserves										
Land-won sand and gravel	45.59	38.70	45.97	41.77	36.17	35.33	38.61	36.39	40.31	41.3
Total sand and gravel reserves	45.59	38.70	45.97	41.77	36.17	35.33	38.61	36.39	40.31	41.3
Total Aggregate Reserves	385.10	384.80	367.88	369.16	378.03	330.79	331.71	312.15	323.52	344.5

4. Cheshire East and Cheshire West and Chester

- 4.1. Since the 2010 monitoring period, data has been 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 have any permitted crushed rock aggregate reserves and therefore analysis relates solely on Cheshire East for this aggregate.

Aggregate crushed rock sales, reserves and landbank

- 4.2. The aggregate figures include estimates where returns were not received. Sales of aggregate land-won crushed rock from Cheshire East have increased from 0.001mt in 2014 to 0.002mt in 2015. 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 and aggregate production is a by-product of the main uses. Reserves of aggregate crushed rock have remained unchanged from 2014 at 4.9mt as at 31 December 2015 maintaining the landbank at 122.5 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 4-1: Cheshire East aggregate crushed rock Landbank as at 31 December 2015

	Landbank as at 31.12.2014	Reserves as at 31.12.2015	Annual apportionment requirement 2005-2020	Landbank as at 31.12.2015
Cheshire East	122.5 years	4.9mt	0.04mt	122.5years

Aggregate sand and gravel sales, reserves and landbank in Cheshire East

- 4.3. Sales of land-won aggregate sand and gravel in Cheshire East have increased by 9.3% from 1.67mt in 2014 to 1.83mt. 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 decreased by 2 percent from 14.31mt to 14.03mt as at 31 December 2015. The landbank at 31 December 2015 was down from 20.15 years in 2014 to 19.75 years. This is more than double 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.

Aggregate sand and gravel sales, reserves and landbank Cheshire West and Chester

4.4. Sales of land-won aggregate sand and gravel in Cheshire West and Chester have increased from 0.42mt in 2014 to 0.6mt in 2015. 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 increased by 70.2% from 4.7mt as at 31 December 2014 to 8mt. This significant increase in reserve is due to the inclusion of figures for the larger Cheshire Sands site, which was granted permission in 2012, but could not be included in the reserves figures until 2015 as the Section 106 was not signed. The landbank for sand and gravel as at 31 December 2015 was 10 years compared to 5.88 years at the end of 2014 monitoring period. This figure is above the minimum seven year requirement set out in the NPPF. The landbank will need to be reviewed in future Annual Monitoring Reports and Local Aggregate Assessments.

Table 4-2: Cheshire aggregates land-won sand and gravel landbanks as at 31 December 2015

	Landbank as at 31.12.2014	Reserves as at 31.12.2015	Annual apportionment requirement 2005-2020	Landbank as at 31.12.2015
Cheshire East	20.15 years	14.03mt	0.71mt	19.75 years
Cheshire West and Chester	5.88 years	8mt	0.80mt	10 years

Table 4-3 Cheshire aggregate crushed rock sales and reserves 2006 to 2015 (million tonnes)

Monitoring Period	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aggregate Crushed Rock Sales										
Cheshire ⁵	0.05	0.03	0.02	0.001	-	-	-	-	-	-
Cheshire East ⁶	-	-	-	-	0.001	0.001	0.001	0.001	0.001	0.002
Cheshire West and Chester ⁶ (no permitted reserves)	-	-	-	-	-	-	-	-	-	-
Total aggregate crushed rock sales	0.05	0.03	0.02	0.001	0.001	0.001	0.001	0.001	0.001	0.002
Aggregate Crushed Rock Reserves										
Cheshire ⁵	5.35	5.52	5.6	4.42	-	-	-	-	-	-
Cheshire East ⁶	-	-	-	-	4.29	4.29	4.29	4.29	4.90	4.9
Cheshire West and Chester ⁶ (no permitted reserves)	-	-	-	-	-	-	-	-	-	-
Total aggregate crushed rock Reserves	5.35	5.52	5.6	4.42	4.29	4.29	4.29	4.29	4.9	4.9

⁵ Former Cheshire County Council Area monitored AM95 to AM09

⁶ Monitored AM10 onwards

Table 4-4: Cheshire aggregate sand and gravel sales and reserves 2005 to 2015

Monitoring Period	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aggregate Land-won Sand and Gravel Sales										
Cheshire	1.44	1.51	1.17	0.87	-	-	-	-	-	-
Cheshire East	-	-	-	-	0.42	0.26	0.40	0.41	1.67	1.83
Cheshire West and Chester	-	-	-	-	0.54	0.66	0.56	0.42	0.42	0.6
Total Aggregate Land-won Sand and Gravel Sales	1.44	1.51	1.17	0.87	0.96	0.92	0.96	0.83	2.09	2.47
Aggregate Land-won Sand and Gravel Reserves										
Cheshire	21.3	19.52	16.4	12.76	-	-	-	-	-	-
Cheshire East	-	-	-	-	1.75	5.6	5.59	5.17	14.31	14.03
Cheshire West and Chester	-	-	-	-	4.42	4.3	4.4 ¹	4.5 ¹	4.7	8
Total Aggregate Land-won Sand and Gravel Reserves	21.3	19.52	16.4	12.76	6.17	9.9	14.9	13.57	19.01	21.47

1. Figures for 2012 and 2013 data originally included Cheshire Sands but have been corrected to remove this as the Section 106 was not signed until January 2015.

Table 4-5: Cheshire aggregate sites surveyed 2015

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	SJ 568 680	Sand	Closed	Cheshire West and Chester Council	
Cheshire Sands ⁽²⁾	Tarmac Limited	SJ 572 699	Sand	Active	Cheshire West and Chester Council	MPA
Cobden Farm	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	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 Material Limited	SJ 612 714	Sand	Active	Cheshire West and Chester Council	MPA
Fourways	Tarmac Limited	SJ 577 690	Sand	Closed	Cheshire West and Chester Council	MPA
Gawsworth Quarry	O'Gara Developments	SJ 919 679	Sandstone	Inactive	Cheshire East Council	
Lee Hills Quarry	Lee Hills Quarry	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 Product 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	
Sycamore Quarry	A.M & D Earl	SJ 939 766	Sandstone	Active	Cheshire East Council	
Town Farm Quarry ⁽³⁾	Casey Pro Environment	SJ 565 735	Sand	Inactive	Cheshire West and Chester Council	MPA

1. Also Members of SAMSA (Silica and Moulding Sands Association)

2. Incorporates Crown Farm and Delamere Quarries

3. Extraction ceased in March 2014 and site is now closed for the purposes of sand extraction.

Monitoring of planning applications

Table 4-6: Planning applications for primary aggregate extraction determined between 1 January and 31 December 2015

	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	-	-	-	-	-	-
Cheshire West and Chester	-	-	-	-	-	-
Total	-	-	-	-	-	-

Table 4-7: Planning applications for primary aggregate extraction pending as at 31 December 2015

	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	-	-	1.18	2
Total	-	-	1.18	2

Table 4-8: Planning application details for primary aggregate extraction determined and pending 1 January to 31 December 2015

MPA	Site	Applicant	Application No.	Mineral	Area of Application (ha)	Resource (mt)	Extension / new quarry	Decision / date
Cheshire West and Chester	Cobden Farm Quarry	Mr Grahame Fyles	15/0063/S73	Sand	-	0.25	Extension	December 2016
Cheshire West and Chester	Town Farm Quarry	Casey Pro Environment	14/01677/S73	Sand	-	0.93	Extension	February 2016

Table 4-9: Environment Act 1995 - summary of aggregate mineral review sites as at 31 December 2015

MPA	Original	Lapsed	Submitted	Determined	With Sos	High Court
Phase I						
Cheshire East Council	6	-	4	6	-	-
Cheshire West and Chester Council	1	-	-	1	-	-
Phase II						
Cheshire East Council	1	-	-	1	-	-
Cheshire West and Chester Council	-	-	-	-	-	-
Dormant						
Cheshire East Council	7		-	1		
Cheshire West and Chester Council			-	-		

5. Cumbria

5.1. 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 2015'.

Aggregate crushed rock sales, reserves and landbank

5.2. Total sales of aggregate crushed rock increased during the 2015 monitoring period by 30.2% from 2.58mt in 2014 to 3.36mt. Sales of High Specification Aggregate (HSA) increased for the first time since 2012 increasing by 10.5%. This reflects the national increase in demand for this resource. Both Limestone and sandstone and igneous rock had increased sales of 35.2% and 23.3% respectively.

5.3. Recorded reserves of crushed rock aggregate increased during the monitoring period by 1.6% from 137.06mt as 31 December 2014 to 139.35mt. The overall increase is due to a number of factors, including a 62.4% increase in HSA from 10.98mt in 2014 to 17.84mt reflecting a new permission for 6.9mt being granted at Ghyll Scaur. Reserves of Limestone decreased by 4.5% from 96.26mt as at 31 December 2014 to 92.01mt. Sandstone and igneous rock decreased by 1.1% from 29.82mt as at 31 December 2014 to 29.5mt.

5.4. The crushed rock landbank increased to 34.6 years as at 31 December 2015, an increase of just over half a year. This is more than three times the minimum 10 year requirement set out in the NPPF.

Table 5-1: Cumbria aggregate crushed rock Landbank as at 31st December 2014

	Landbank as at 31.12.2014	Reserves as at 31.12.2015	Annual apportionment requirement 2005-2020	Landbank as at 31.12.2015
Cumbria	34.03 years	139.35mt	4.02mt	34.6 years

Aggregate sand and gravel sales, reserves and landbank

- 5.5. Total sales of aggregate sand and gravel increased during 2015 by 8.7% from 0.7mt in 2014 to 0.76mt. This increase is due to an upturn in sales of land-won aggregate sand and gravel from 0.68mt in 2014 to 0.74mt. Landings of marine dredged sand and gravel remained steady in 2015 at 0.02mt.
- 5.6. Reserves of aggregate land-won sand and gravel fell by 15.4% from 9.2mt as at 31 December 2014 to 7.78mt. The landbank for aggregate land-won sand and gravel has reduced during the monitoring period from 10.45 years as at 31 December 2014 to 8.84 years. This remains in excess of the minimum seven year requirement set out in the NPPF but will need to be closely monitored in future Annual Monitoring Reports and Local Aggregate Assessments.

Table 5-2: Cumbria aggregate land-won sand and gravel Landbank as at 31st December 2014

	Landbank as at 31.12.2014	Reserves as at 31.12.2015	Annual apportionment requirement 2005-2020	Landbank as at 31.12.2015
Cumbria	10.45 years	7.78mt	0.88mt	8.84 years

Table 5-3: Cumbria aggregate crushed rock sales and reserves 2006-2015

Monitoring Period	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aggregate Crushed Rock Sales										
Limestone	2.7	2.8	2.7	1.91	2.46	1.84	2.03	1.62	1.9	2.57
Sandstone and igneous rock	0.27	0.53	0.4	0.38	0.41	0.37	0.37	0.37	0.3	0.37
High Specification Aggregate (HAS)	0.69	0.7	0.72	0.78	0.59	0.6	0.55	0.41	0.38	0.42
Total sales	3.66	4.0	3.58	3.07	3.46	2.81	2.95	2.4	2.58	3.36
Aggregate Crushed Rock Reserves										
Limestone	97.7	102.5	110.05	103.9	109.8	103.8	99.56	99.17	96.26	92.1
Sandstone and igneous rock	49.2	48.69	47.75	47.81	47.36	24.81	23.41	10.33	29.82	29.5
High Specification Aggregate (HAS)	9.55	19.0	18.2	17.26	13.16	13.81	13.77	11.53	10.98	17.84
Total reserves	156.5	170.2	186.7	168.9	170.3	142.4	136.7	121.03	137.06	139.35

Table 5-4: Cumbria aggregate sand and gravel sales and reserves 2006-2015

Monitoring Period	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aggregate Sand and Gravel Sales										
Land-won aggregate sand and gravel	0.79	0.87	0.77	0.52	0.53	0.46	0.46	0.48	0.68	0.74
Marine dredged aggregate sand and gravel	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.02
Total aggregate sand and gravel sales	0.81	0.88	0.79	0.54	0.55	0.47	0.47	0.49	0.7	0.76
Aggregate Land-won Sand and Gravel Reserves										
Land-won aggregate sand and gravel	9.19	8.67	13.47	13.95	11.48	11.1	10.59	9.89	9.2	7.78
Total Aggregate land-won sand and gravel Reserves	9.19	8.67	13.47	13.95	11.48	11.1	10.59	9.89	9.2	7.78

Table 5-5: Cumbria aggregate sites surveyed 2015

Site name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
Bonnie Mount	J. E. A and S. M Burne	NY 548 313	Sand	Active	Cumbria County Council	
Brockleworth 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	NY 324 048	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 Quarries 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 Service 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 Harrision	NY 511 252	Sand and gravel	Active	Cumbria County Council	
Holme Park Quarry	Aggregate Industries UK	SD 536 788	Limestone	Active	Cumbria County Council	MPA
Holmescales Quarry	Aggregate Industries UK	SD 556 869	Sandstone (HAS)	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	Tarmac Limited	NY 490 410	Sand and gravel	Active	Cumbria County Council	MPA

Site name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
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 (HAS)	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	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 (UK) Ltd	NY 564 106	Igneous rock	Active	Extraction in Lake District National Park Authority	MPA
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	Tarmac Limited	SD 246 729	Limestone	Active	Cumbria County Council	MPA
Tendley Quarry	Tendley Quarry	NY 088 288	Limestone	Active	Cumbria County Council	

Monitoring of planning applications

Table 5-6: Planning Applications for primary aggregate extraction determined 1 January to 31 December 2015

	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	8.98	-	1	-	-	-
Total	8.98	-	1	-	-	-

Table 5-7: Planning Applications for primary aggregate extraction pending as at 31 December 2015

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

Table 5-8: Planning application details for primary aggregate extraction determined and pending 1 January to 31 December 2015

MPA	Site	Applicant	Application No.	Mineral	Area of Application (ha)	Resource (mt)	Extension/new quarry	Decision/data
Cumbria CC	Ghyll Scaur	Aggregate Industries UK Ltd.	PL\1318\05 (4/14/9003)	HSA	7.4	8.98	Extension	14/08/15
-	-	-	-	-	-	-	-	-

Table 5-9: Environment Act 1995 - summary of aggregate mineral review sites as at 31 December 2015

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

6. Greater Manchester, Merseyside and Warrington

6.1. The metropolitan boroughs of Greater Manchester (Bolton, Bury, Manchester, 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) and Halton are represented by the Merseyside Environmental Advisory Service. Warrington deals with all mineral planning issues as an individual authority.

Aggregate crushed rock sales, reserves and landbank

6.2. Sales of aggregate crushed rock increased during the 2015 monitoring period by 14.4% from 0.69mt in 2013 to 0.79mt. This is the second year that sales have increased following varied sales experienced between 2008 and 2013.

6.3. Reserves of crushed rock aggregate decreased by 3.6% from 21.18mt as at 31 December 2014 to 20.43mt. The landbank as at 31 December 2015 also decreased to 15.47 years from 16.04 years as at 31 December 2014 and remains in excess of the minimum 10 year requirement as expressed in the NPPF.

Table 6-1: Greater Manchester, Merseyside and Warrington aggregate crushed rock landbank as at 31st December 2015

	Landbank as at 31.12.2014	Reserves as at 31.12.2015	Annual apportionment requirement 2005-2020	Landbank as at 31.12.2015
Greater Manchester, Merseyside and Warrington	16.04 years	20.43 mt	1.32mt	15.47 years

Aggregate sand and gravel sales, reserves and landbank

6.4. Total sales of land and marine-won aggregate sand and gravel increased by 166% during the monitoring period from 0.36mt in 2014 to 0.96mt. This increase is due to over a six fold increase in landings of marine dredged sand and gravel from 0.1mt in 2014 to 0.65mt as at 31 December 2015. Sales of land-won aggregate sand and gravel increased by 0.05mt from 2014 sales and represent a second year of increased sales following three years of steady output between 2011 and 2013.

6.5. Reserves of land-won sand and gravel fell by 4.2% from 3.86mt in 2014 to 3.7mt. The landbank for aggregate land-won sand and gravel also reduced to 8.6 years as at 31

December 2015. 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 6-2: Greater Manchester, Merseyside and Warrington aggregate land-won sand and gravel landbank as at 31st December 2015

	Landbank as at 31.12.2014	Reserves as at 31.12.2015	Annual apportionment requirement 2005-2020	Landbank as at 31.12.2015
Greater Manchester, Merseyside and Warrington	8.97 years	3.7mt	0.43mt	8.6 years

Table 6-3: Greater Manchester, Merseyside and Warrington aggregate crushed rock sales and reserves 2006-2015

Monitoring Period	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aggregate Crushed Rock Sales										
Sandstone	1.54	1.10	0.69	0.3	0.29	0.36	0.81	0.42	0.69	0.79
Total aggregate crushed rock sales	1.54	1.10	0.69	0.3	0.29	0.36	0.81	0.42	0.69	0.79
Aggregate Crushed Rock Reserves										
Sandstone	25.54	24.86	17.36	17.23	17.01	20.26	20.06	20.30	21.18	20.43
Total aggregate crushed rock reserves	25.54	24.86	17.36	17.23	17.01	20.26	20.06	20.30	21.18	20.43

Table 6-4: Greater Manchester, Merseyside and Warrington aggregate sand and gravel sales and reserves 2006-2015

Monitoring Period	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aggregate Sand and Gravel Sales										
Land-won aggregate sand and gravel	0.40	0.30	0.44	0.37	0.22	0.24	0.24	0.24	0.26	0.31
Marine dredged aggregate sand and gravel	0.49	0.53	0.41	0.30	0.26	0.24	0.21	0.30	0.1	0.65
Total aggregate sand and gravel sales	0.89	0.83	0.85	0.67	0.48	0.48	0.45	0.54	0.36	0.96
Aggregate Land-won Sand and Gravel Reserves										
Land-won aggregate sand and gravel	9.89	5.15	5.80	6.10	4.85	4.76	4.52	4.27	3.86	3.7
Total Aggregate land-won sand and gravel Reserves	9.89	5.15	5.80	6.10	4.85	4.76	4.52	4.27	3.86	3.7

Table 6-5: Greater Manchester, Merseyside and Warrington aggregate sites and wharves surveyed 2015

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	Active	St Helens Council	
Buckton Vale Quarry	W Maher & Sons	SD 992 016	Sandstone	Active	Tameside Metropolitan Borough Council	MPA/BAA
Fletcher Bank Quarry	W Maher & Sons	SD 804 170	Sandstone	Active	Bury Metropolitan Borough Council	MPA/BAA
Fletcher Bank Quarry	PP O'Connor Ltd	SD 804 170	Sandstone	Active	Bury Metropolitan Borough Council	
Harrop Edge Quarry	Chartrange (Quarry Products)	SJ 982 959	Sandstone	Inactive	Tameside Metropolitan Borough Council	
Harwood Quarry	Booth Ventures	SD 747 124	Sandstone	Inactive (for aggregate extraction)	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	
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			Sand and gravel	Inactive	Wirral Metropolitan Borough Council	
Port of Liverpool (Seaforth Docks)	Aggregate Industries	SJ 313 967	Crushed rock (imports from Glensanda Quarry)	Active	Sefton Metropolitan Borough Council	MPA

1. Active for recycled aggregates

Monitoring of planning applications

Table 6-6: Planning Applications for primary aggregate extraction determined 1 January to 31 December 2015

	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	1.5	-	1	-	-	-
Merseyside	-	-	-	-	-	-
Warrington	-	-	-	-	-	-
Total	-	-	-	-	-	-

Table 6-7: Planning Applications for primary aggregate extraction pending as at 31 December 2015

	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 6-8: Planning application details for primary aggregate extraction determined and pending 1 January to 31 December 2015

MPA	Site	Applicant	Application No.	Mineral	Area of Application (ha)	Resource (mt)	Extension/new quarry	Decision/data
Bolton (GM)	Montcliffe Quarry	Armstrong's Aggregates Ltd.	93076/14	sandstone/ gritstone aggregate and blockstone.	3.4	1.5	Extension	13/02/15

Table 6-9: Environment Act 1995 - summary of aggregate mineral review sites as at 31 December 2015

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

7. Lancashire

- 7.1. 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

- 7.2. Sales of crushed rock aggregate increased during the monitoring period by 17.4% from 2.81mt in 2014 to 3.3mt. The sales figure is similar to those seen prior to the 2008 recession and represents a second consecutive year of increased sales. The sales of sandstone decreased by 4.1% from 0.99mt in 2014 to 0.95mt. The sales of limestone increased by 29.8% from 1.81mt in 2014 to 2.35mt, the highest figure since 2009.
- 7.3. Total crushed rock reserves increased by 15.4% from 120.07mt as 31 December 2014 to 138.58mt and was due to a new permission and reappraisal of reserves by some operators. Recorded reserves of limestone showed an increase of 11.42mt, representing a 23.1% increase from the 2014 figure which was due an operator not providing returns in 2014 rather than an increase in newly consented reserve. The reserves of sandstone increased by 7.07mt, a 9.9% which is due to a new planning permissions and re-evaluations by some operators. The landbank for crushed rock increased during the 2015 monitoring period from 28.3 years as at 31 December 2014 to 32.6 years, this is in excess of the ten year minimum requirement set out in the NPPF.

Table 7-1: Lancashire aggregate crushed rock landbank as at 31st December 2015

	Landbank as at 31.12.2014	Reserves as at 31.12.2015	Annual apportionment requirement 2005-2020	Landbank as at 31.12.2015
Lancashire	28.3 years	138.58mt	4.24mt	32.6 years

Aggregate sand and gravel sales, reserves and landbank

- 7.4. Land-won aggregate sand and gravel sales increased from 0.48mt as at 31 December 2014 to 0.56mt a 16.6% increase. This is the second consecutive increase following relatively stable sales since 2005, apart from a decline in 2011, indicating a potential upturn in sales for this material. Reserves of sand and gravel have decreased by 3.9% from 8.24mt as at 31 December 2014 to 7.76mt. The drop in the reserve figure is in line with sales and a new permission granted for 0.1mt.

7.5. The landbank for aggregate sand and gravel decreased during the monitoring period from 18.6 years as at 31 December 2014 to 17.6 years. The landbank remains in excess of the minimum seven year requirement expressed in the NPPF.

Table 7-2: Lancashire aggregate land-won sand and gravel landbank as at 31st December 2015

	Landbank as at 31.12.2014	Reserves as at 31.12.2015	Annual apportionment requirement 2005-2020	Landbank as at 31.12.2015
Lancashire	18.7 years	7.76mt	0.44mt	17.6 years

Table 7-3: Lancashire aggregate crushed rock sales and reserves 2006-2015

Monitoring Period	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aggregate Crushed Rock Sales										
Limestone	2.6	3.0	2.48	1.86	1.59	1.55	1.5	1.48	1.81	2.35
Sandstone	1.0	1.26	0.98	0.66	0.63	0.86	0.94	0.67	0.99	0.95
Total aggregate crushed rock sales	3.6	4.26	3.46	2.52	2.22	2.41	2.44	2.15	2.81	3.3
Aggregate Crushed Rock Reserves										
Limestone	77.0	71.4	52.6	67.63	65.61	62.5	60.64	59.16	49.28	60.7
Sandstone	75.1	74.1	70.35	69.14	67.63	66.0	71.42	71.05	70.83	77.9
Total aggregate crushed rock reserves	152.1	145.5	122.95	136.77	133.24	128.5	132.1	130.21	120.07	138.58

Table 7-4: Lancashire aggregate sand and gravel sales and reserves 2006-2015

Monitoring Period	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Aggregate Sand and Gravel Sales										
Land-won aggregate sand and gravel	0.34	0.33	0.31	0.42	0.37	0.25	0.36	0.36	0.48	0.56
Marine dredged aggregate sand and gravel	0.1	0.12	0.01	-	-	-	-	-	-	-
Total aggregate sand and gravel sales	0.44	0.45	0.36	0.42	0.37	0.25	0.36	0.36	0.48	0.56
Aggregate Land-won Sand and Gravel Reserves										
Land-won aggregate sand and gravel	5.21	5.4	10.3	8.98	8.81	8.6	8.36	8.18	8.24	7.76
Total Aggregate land-won sand and gravel Reserves	5.21	5.4	10.3	8.98	8.81	8.6	8.36	8.18	8.24	7.76

Table 7-5: Lancashire aggregate sites surveyed 2015

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	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	Tarmac Limited	SD 511 679	Limestone	Active	Lancashire County Council	
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	W.Maher & Sons	SD 758 233	Sandstone	Active	Lancashire County Council	MPA
Lanehead	Tarmac Limited	SD 752 437	Limestone	Active	Lancashire County Council	MPA
Leapers Wood	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	SD 578 304	Sand and gravel	Active	Lancashire County Council	
Lydiat Lane Quarry	Wheale Limited	SD 554 239	Sand and gravel	Active	Lancashire County Council	
Runshaw	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	Marshells 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	

Name	Company	Grid Ref	Mineral	Status	MPA	MPA/BAA
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 7-6: Planning Applications for primary aggregate extraction determined 1 January to 31 December 2015

	Aggregate crushed rock			Land-won aggregate sand and gravel		
	Granted (mt)	Refused (mt)	No. of applications	Granted (mt)	Refused (mt)	No. of applications
Lancashire	1	-	1	0.1	-	1
Total	1	-	1	0.1	-	1

Table 7-7: Planning Applications for primary aggregate extraction pending as at 31 December 2015

	Aggregate crushed rock		Land-won aggregate sand and gravel	
	Resource (mt)	No. of applications	Resource (mt)	No. of applications
Lancashire	-	-	-	-
Total	-	-	-	-

Table 7-8: Planning application details for primary aggregate extraction determined and pending 1 January to 31 December 2015

MPA	Site	Applicant	Application No.	Mineral	Area of Application (ha)	Resource (mt)	Extension/new quarry	Decision/data
Lancashire CC	Sandons Farm	Robin Oatridge & Co	LCC/2015/0014	Sand	1.3	0.1	Extension	21/05/15
Lancashire CC	Brinscall	Armstrong Aggregates	LCC/2014/0170	Sandstone	1.5	1.0	Extension	21/07/15

Table 7-9: Environment Act 1995 - summary of aggregate mineral review sites as at 31 December 2015

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

8. Marine Dredged Aggregate

- 8.1. 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 2015' 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 18th of which was published in September 2016. Table 8.1 provides detail of the North West dredging areas, Tables 8.2 and 8.3 provide removal and landing statistics for the North West Region.
- 8.2. During the 2015 monitoring period there were four active dredging licences operating in water off the North West coast.

Table 8-1: North West marine licences and dredging areas 2015

Area no:	Area name	Licence type	Licence holder	Operational status 2015
392	Hilbre Swash	Active dredge area/application area	Tarmac Marine Dredging Active Limited	Active
393	Hilbre Swash	Active dredge area/application area	Norwest Sand and Ballast Co	Active
457	Liverpool Bay	Active dredge area/application area/Option area	Westminster Gravels Ltd	Active
518	Liverpool Bay	Active dredge area/application area/Option area	Hanson Aggregates Marine Ltd	Active

- 8.3. A total of 2,046,899 tonnes of material was removed from permitted dredging areas off the North West coast during the 2015 monitoring period and the highest rate of extraction in over 10 years. This represents a 293% increase in removal levels from 2014. This increase is due to the extraction of secondary contact fill of over 1.78mt which does not count towards the annual limit of removal. Primary Aggregate increased by 3.6 percent from 241,424 tonnes in 2014 to 260,649 tonnes.
- 8.4. Of the total 2.04mt of material removed only 252,856 tonnes was landed at permitted landing points within the North West. Landing within the North West (excluding landings at Penrhyn) has increased by 4.5% from 206,504 in 2014 to a total of 215,844 during 2015. Landings increased at all wharves compared to 2014. Barrow wharves increased

by 55.8% from 3,790 in 2014 to 5,905 during 2015 although this is still below the 11,805 landed in 2013. Liverpool ports increased from 202,074 in 2014 to 209,939 in 2015.

- 8.5. The 'Marine Aggregates Capability and Portfolio document 2015' reports that there are currently 19.10mt of primary marine aggregate reserves in the north west dredging areas, which when compared to the 10 year average annual off take rate would provide a reserve life of approximately 40.99 years.

Table 8-2: Marine dredged aggregate removed from off the North West coast 2006-2015

North West		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Primary	Aggregate	633,405	432,889	271,598	307,509	314,098	285,368	378,813	251,424	378,813	260,649
	River & Misc	109,399	87,787	92,263	39,458	0	0	0	0	0	0
Secondary	Beach nourishment	0	0	0	0	0	0	480,000	268,959	480,000	0
	Contract fill	0	207,506	276,190	9,000	0	309,300	0	0	0	1,786,250
Total aggregates removed		720,001	742,804	728,182	840,051	355,967	314,098	594,668	858,813	520,383	2,046,899
Authorised limit of removal (mt/pa)		1.38	1.38	1.38	1.38	1.26	1.33	1.43	0.99	1.31	1.3

Table 8-3: Marine dredged aggregate landed at North West coastal wharfs

Landing Point	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Barrow	22,321	14,890	23,319	23,111	15,592	12,333	9,831	11,805	3,790	5,905
Eastham	111,687	109,399	87,787	92,263	40,012	-	-	-	-	-
Heysham	138,088	119,767	11,930	-	-	-	-	-	-	-
Liverpool	373,812	428,635	327,094	209,766	223,206	238,880	205,528	303,696	202,074	209,939
Penrhyn	46,091	46,002	54,901	27,133	53,088	53,302	62,361	53,700	35,074	37,012
Total	691,999	718,693	505,031	352,273	331,898	304,515	277,720	369,201	241,578	252,856
Total exc Penrhyn	645,908	672,691	450,130	325,140	278,810	251,213	215,359	315,501	206,504	215,844

9. Secondary and Recycled Aggregates

- 9.1. Recycled Aggregate, which includes inert materials such as concrete, stone, brick and other similar materials, are reprocessed materials previously used for construction purposes and which are often taken from the Construction, Demolition and Excavation (CD&E) waste stream. Secondary aggregates are usually by-products of industrial processes and can include materials such as clay waste, ash and slag.
- 9.2. The use of secondary and recycled materials not only reduces the requirement for new production of primary aggregate, but also reduces the need for disposal to landfill of CD&E waste materials. The National Planning Policy Framework (para 163) recognises this and strongly promotes the use of secondary and recycled materials as an alternative to primary aggregate.
- 9.3. Data on secondary and recycled aggregate production and use is variable and incomplete. This is because, while some sites operate under licence and can be monitored, much recycling and re-use occurs on individual construction sites, is temporary in nature and does not produce data. Attempts by the AWP to fill this data gap through the 2015 survey have produced insufficient data. Until this situation is remedied through future surveys, the Environment Agency's Waste Data Interrogator has been used to identify the amount of CD&E waste produced and handled at licenced waste facilities within each Waste Authority and is presented by sub-region in Table 9.1 below. It is likely to only represent a proportion of the recycled aggregates in circulation.
- 9.4. CD&E materials will be used for engineering works and restoration/recovery projects as well as creating secondary aggregates. An increase in the amount of CD&E being handled or produced in each area may represent an increase in the amount of recycled aggregate available for use. In Cheshire East the amount of handled CD&E increased from 0.56mt in 2014 to 0.71mt in 2015 an increase of 26%. Production increased from 0.04mt 2014 to 0.07mt in 2015, an increase of 92.5%. In Cheshire West and Chester the amount of handled CD&E increased from 0.15mt in 2014 to 0.17mt in 2015 an increase of 12%. Production increased from 0.028mt 2014 to 0.029mt in 2015 an increase of 1.1%.
- 9.5. In Cumbria there was an increase in both production and handling of CD&E. The amount of handled CD&E increased from 0.85mt in 2014 to 1.02mt in 2015, a 19.9%

increase. The amount produced increased from 0.7mt in 2014 to 0.77mt in 2015, a 9.5% increase.

- 9.6. In Greater Manchester, Merseyside and Warrington the amount of CD&E that was handled fell by 2.8% whilst production increased by 19.4%. Production increased in all areas, handling increased in Merseyside but fell within Greater Manchester and Warrington. In Greater Manchester the amount of handled CD&E decreased from 2.87mt in 2014 to 2.85mt in 2015, a reduction of 0.7%. Production increased from 2.34mt 2014 to 2.79mt in 2015, an increase of 19.4%. In Merseyside, the amount of handled CD&E increased from 0.88mt in 2014 to 1.16mt in 2015 an increase of 31.9%. Production increased from 0.42mt 2014 to 0.5mt in 2015 an increase of 19.2%. In Warrington the amount of handled CD&E decreased from 1.02mt in 2014 to 0.62mt in 2015 a decrease of 39%. Production increased from 0.12mt 2014 to 0.19mt in 2015 an increase of 21.1%.
- 9.7. In Lancashire there was a decrease in both production and handling of CD&E. The amount of handled CD&E decreased from 1.92mt in 2014 to 1.87mt in 2015 a 2.6% decrease. The amount produced decreased from 1.64mt in 2014 to 1.53mt in 2015 a 7% decrease.

Table 9-1 CD&E Arising's Produced and Handled in the North West (Environment Agency Waste Data Interrogator, 2012, 2013, 2014 and 2015)

Minerals Planning Authority	2012		2013		2014		2015	
	Produced	Handled	Produced	Handled	Produced	Handled	Produced	Handled
Cheshire East	108,930.3	580,054.6	18,841.4	358,519.1	40,899	567,960.8	78,716.6	715,491.9
Cheshire West and Chester	75,623.1	293,144.5	40,757.1	265,172.4	28,850.1	151,911.9	29,163.2	170,089.1
Cheshire	184,553.4	873,199.0	59,598.4	623,691.5	69,749.1	719,872.7	107,879.7	885,580.9
Cumbria	420,108.1	632,209.9	553,513.8	742,601.5	709,868.5	857,473.3	777,083.0	1,028,040.5
Greater Manchester	1,674,149.3	2,228,372.8	2,113,616.5	2,731,459.0	2,340,592.8	2,887,321.2	2,793,823.0	2,868,223.8
Merseyside	243,213.3	696,097.3	410,326.2	937,034.3	424,324.1	886,209.8	505,994.6	1,169,322.5
Warrington	39,006.8	535,753.4	75,800.1	1,030,880.3	123,781.9	1,025,541.8	197,756.8	625,784.3
Greater Manchester, Merseyside & Warrington	1,956,369.4	3,460,223.4	2,599,742.8	4,699,373.7	2,888,698.8	4,799,072.7	3,497,574.4	4,663,330.6
Lancashire	1,192,020.9	1,059,652.0	1,250,336.6	1,123,368.0	1,649,305.7	1,927,558.6	1,534,296.1	1,877,895.0

Appendix 1: AWP Membership

Aggregate Working Party Representatives	
Chairperson	<p>Carolyn Williams Group Leader Minerals and Waste Urban Vision Parntership Ltd 1st Floor, Salford Civic Centre, Chorley Road, Swinton, Salford, M27 5AW Tel: 0161 604 7746 carolyn.williams@urbanvision.org.uk</p>
Technical Secretary	<p>Jonathan Evans Planning Officer Urban Vision Parntership Ltd 1st Floor, Salford Civic Centre, Chorley Road, Swinton, Salford, M27 5AW Tel: 0161 779 6183 jonathan.evans@urbanvision.org.uk</p>
Government Representatives	
Department for Communities and Local Government	<p>Eamon Mythen Planning for Minerals and Sustainable Waste Management Team DCLG, Planning Directorate Infrastructure and Environment Division, Third Floor Fry Building, 2 Marsham Street, London SW1P 4DF Tel: 0303 44 41654 Eamon.Mythen@communities.gsi.gov.uk</p>

The Crown Estate	<p>Nicola Clay The Crown Estate, Marine Minerals, 16 New Burlington Place, London W1S 2HX nicola.clay@rhdhv.com</p>
Local Government Representatives	
Cheshire East Council	<p>Emma Williams Strategic Planning & Housing, Cheshire East Council, Westfields, Middlewich Road, Sandbach, Cheshire CW11 1HZ</p>
Cheshire West and Chester	<p>Catherine Morgetroyd Spatial Planning, Cheshire West and Chester Council, The Forum Offices, Chester CH1 2HS</p>
Cumbria	<p>Sue Brett Minerals & Waste Planning Policy Team, Cumbria County Council, County Offices, Busher Walk, Kendal, Cumbria LA9 4RQ</p>
Environmental Advisory Service (Merseyside)	<p>Paul Slinn Environment Advisory Service, 1st Floor, Merton House Stanley Road, Bootle, Liverpool L20 3DL</p>
Urban Vision Partnership Ltd (Greater Manchester)	<p>Philippa Lane Urban Vision Partnership Ltd, 1st Floor, Salford Civic Centre, Chorley Road, Swinton, Salford, M27 5AW</p>
Lancaster County Council	<p>Richard Sharple Planning and Environment, Lancashire County Council, Guild House, Cross Street Preston, PR1 8RD</p>
Lake District National Park	<p>Paula Allen Lake District National Park Authority, Murley Moss, Oxenholme Road, Kendal LA9 7RL</p>
Warrington Borough Council	<p>Kevin Usher Economic Regeneration, Growth and Environment, Warrington Borough Council, New Town House, Buttermarket Street, Warrington WA1 2NH</p>

Industry Representatives	
Aggregate Industries UK Limited	Geoff Storey Aggregate Industries UK, High Roads, Nether Kellet, Cranforth, Lancashire LA6 1EA
British Aggregate Association	Peter Huxtable Marshalls Natural Stone Division, Brier Lodge, Southowarm, Harlifax HA3 9SY
British Marine Aggregate Producers Association	Andrew Bellamy BMAPA, UMA House, Shopwhyke Road, Chichester PO20 2AD
Cemex UK	Mark Kelly Cemex UK Operations Limited, Coldharbour Lane, Thorpe, Egham, Surrey TW20 8TD
Hanson Heidelberg Cement Group	Andrew Bower Hanson Aggregates, Clifford House, Wetherby Business Park, York Road, Wetherby, West Yorkshire LS22 7NS
Minerals Products Association	Nick Horsley Minerals Products Association, 38-44 Gillingham Street, London SW1V 1HU
Sibelco UK Ltd	Mike Hurley or Maria Cotton Sibelco UK Ltd, Brookside Hall, Congleton Road, Sandbach, Cheshire CW11 4TF
Tarmac	Grahame Fyles or Matthew Pixton Tarmac, Tunstead House, Buxton, Derbyshire SK17 8TG
Marshalls	Gary Redfern Landscape House, Premier Way, Lowfields Business Park, Elland, W Yorks, HX5 9HT

Appendix 2: AWP Activities

There were no AWP meetings during 2015.

Appendix 3: Glossary

Apportionment - currently set by the 'National and regional requirements 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.

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 a period of 5 years, during which the licence application process must be completed.

Licensed Dredge Area - active licenced dredge areas.

Local Development Framework - a set of Local Development Documents which include the Local Development Scheme, Statement of Community Involvement and Local Plan.

Appendix 3: Acronyms

AM	Annual Monitoring
AMR	Annual Monitoring Report
AWP	Aggregate Working Party
BAA	British Aggregates Association
BGS	British Geological Survey
BMAPA	British Marine Aggregate Producers Association
CDEW	Construction, Demolition and Excavation Waste
CLG	Communities and Local Government
HSA	High Specification Aggregate
LDF	Local Development Framework
MDF	Minerals Development Framework
MLP	Minerals Local Plan
MPA	Mineral Products Association
MPAs	Mineral Planning Authorities
MPG	Minerals Planning Guidance
MPS	Minerals Planning Statement
Mt.	Million Tonnes
NCG	National Co-Ordinating Group
NFDC	National Federation of Demolition Contractors
NPPF	National Planning Policy Framework
RPB	Regional Planning Body
RPG	Regional Planning Guidance
RSS	Regional Spatial Strategy
RTAB	Regional Technical Advisory Body
UDP	Unitary Development Plan