

*East of England Aggregates
Working Party*



Annual Monitoring Report 2014 and 2015

Produced by The Minerals and Waste Planning Shared Service for Central Bedfordshire,
Bedford Borough and Luton Borough Councils on behalf of the East of England Aggregates
Working Party (EEAWP)

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Executive Summary

This Annual Monitoring Report for the East of England is presented as a combined document covering the years 2014 and 2015 and has been compiled by the East of England Aggregates Working Party from survey returns made by operators to Mineral Planning Authorities (MPAs). Data for 2014 has largely relied on the information gathered by the British Geological Survey undertaken as part of the 2014 national survey. Information has also been sought on secondary and recycled aggregates along with records of minerals planning applications which have been granted, refused, withdrawn or undetermined across the two year monitoring periods. Where appropriate, illustrative material depicts trends over the respective ten year periods and provides analysis by individual authority.

The National Planning Policy Framework requires MPAs to prepare a Local Aggregate Assessment (LAA) based on a rolling average of 10 year sales data and an assessment of all supply opportunities and other relevant information. It is intended that the information presented within the report assists MPAs in the preparation of their LAAs for submission to the National Co-ordinating Group to consider appropriate provision and inform decisions regarding provision of aggregates in their minerals plans.

Based on the sub-national apportionment figures it is expected that the East of England makes provision for 14.75 million tonnes per annum (mtpa) of land-won sand and gravel and 0.4 mtpa of crushed rock.

Sales of land-won sand and gravel in the East of England rose from 9.5 Mt in 2013 to 12.3Mt in 2014 before falling back in 2015 to 10.8Mt. The figure for 2014 resulted in a three year average over 2012 -2014 of 10.2 Mt and a ten year average over 2005-2014 of 11.1 Mt. The figure for 2015 produced a three year average over the period 2013 – 2015 of 10.9 Mt and a ten year average over 2006 -2015 of 10.7 Mt.

At the end of 2014 reserves of land-won aggregates in the East of England stood at 134.3 Mt, some 12.6 Mt less than that at the end of 2013, providing a landbank of 9.1 years. By the end of 2015, reserves amounted to 140.1 Mt giving a landbank of 9.5 years. As at the end of 2015 all the authority areas within the East of England had landbanks in excess of 7 years.

Sales figures for local crushed rock have, for confidentiality reasons, been combined to provide an overall figure for the East of England which, in 2014, amounted to 0.67Mt, an increase of some 0.31 Mt from that in 2013. However, sales fell back in 2015 to 0.35 Mt. The 10 year average for over 2005 – 2014 was 0.4Mt. For the period 2006 – 2015 the ten year average slipped to 0.39 Mt.

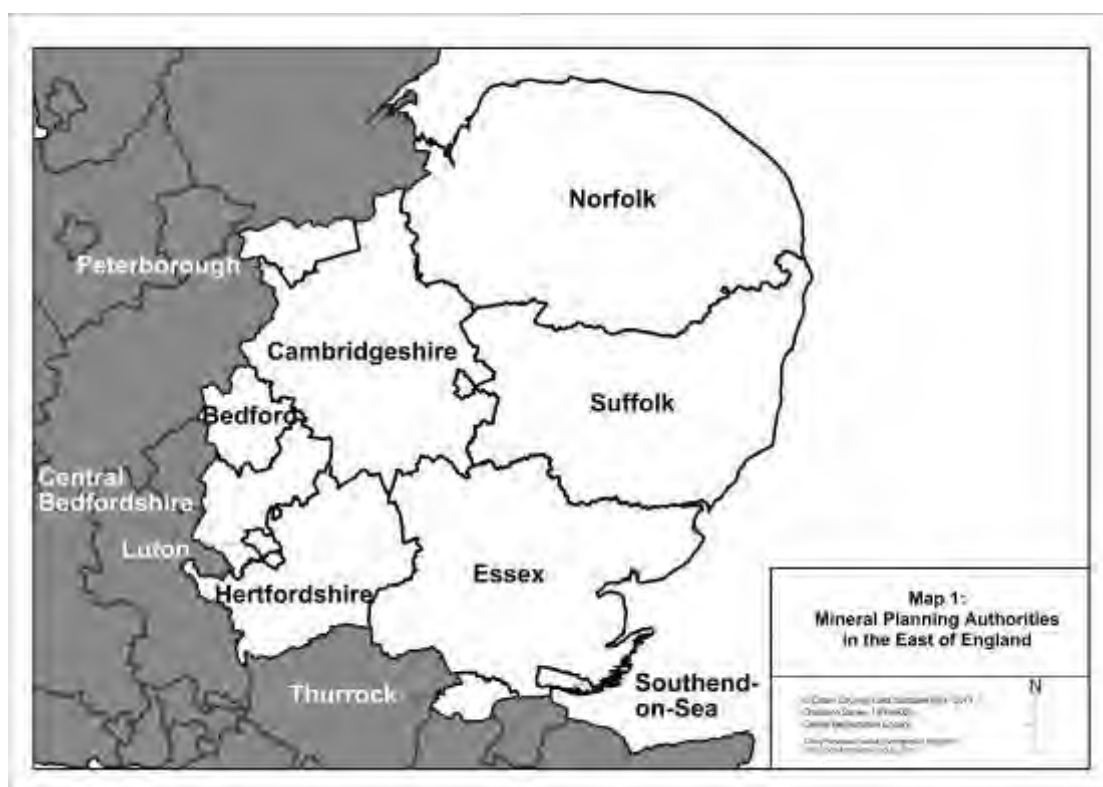
It proved difficult to collect accurate and full figures for secondary and recycled aggregates.

New aggregate permissions in the East of England approved a total of 4.7Mt of sand and gravel in 2014 whilst in 2015 permissions were granted for a total of 11.1Mt of sand and gravel. The East of England Aggregates Working Party can advise the National Co-ordinating Group that the authorities comprising the East of England continue to make a full contribution to both local and national aggregate needs.

Section 1: Introduction

Background

- 1.1 The Aggregates Working Parties¹ (AWPs) 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 Co-ordinating Group (NCG).
- 1.2 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.



- 1.3 The East of England Aggregates Working Party (EEAWP) was established in 2001. It comprises the former East Anglia MPAs (Norfolk, Suffolk, Cambridgeshire and Peterborough) and MPAs from the former South East (Essex, Southend-on-Sea, Thurrock, Hertfordshire, Central Bedfordshire, Bedford Borough and Luton).
- 1.4 The EEAWP is chaired by a Chief Planning Officer or Director from one of the MPAs. The Chairman for the years 2014 and 2015 was Andrew Cook, Director for Operations, Environment and Economy at Essex County Council. The AWP is also serviced by a

¹ Were previously known as Regional Aggregate Working Parties but since changed to reflect national guidelines.

Technical Secretary, who was Susan Marsh, Principal Planning Officer, Central Bedfordshire Council. The membership of the East of England AWP for 2014 and 2015 is set out in Appendix 1. The main matters that the East of England AWP considered at its meetings held in 2014 and 2015 are set out in Appendix 2. There was, however, a gap in the meetings schedule between February and October 2015 when no meeting took place and no work was undertaken on behalf of the AWP due to the lack of funding for the Secretariat by DCLG.

Government Guidance

National and Regional Guidelines for Aggregates Provision 2009

- 1.5 In June 2009 the National and Regional guidelines for aggregates provision in England were revised (superseding those published in 2003). This stated that an estimated 236 million tonnes (mt) of land won sand and gravel will need to be provided for in the East of England region during the 16 year period 2005-2020. This equates to 14.75 million tonnes per annum (mtpa), a reduction of 1.25mtpa from the 2003 Guidelines. A copy of the 2009 Guidelines is available on the Department for Communities and Local Government (DCLG) website:

<http://www.communities.gov.uk/publications/planningandbuilding/aggregatesprovision2020>

- 1.6 The apportionment of the regional guidelines to sub-regional areas (Mineral Planning Authorities) within the East of England was the responsibility of the Regional Planning Board (RPB), with advice from the East of England Aggregates Working Party including the Mineral Planning Authorities (MPAs). This Board was abolished in 2009. The 2005-2020 Guidelines set out the sub-regional apportionment for each MPA.
- 1.7 Table 1 below sets out the average annual call on reserves of sand and gravel and crushed rock in the East of England as set out in the sub-regional apportionment.

Table 1: Average Annual Call on Reserves of sand and gravel and crushed rock in the East of England 2005-2020 as set out in the sub-regional apportionment.

Sand and Gravel	(Thousand Tonnes)
Bedford / Central Bedfordshire / Luton	1,840
Cambridgeshire / Peterborough	2,880
Essex / Thurrock / Southend-on-Sea	4,450
Hertfordshire	1,390
Norfolk	2,570
Suffolk	1,620
Total	14,750
Crushed rock	
Cambridgeshire / Peterborough	200
Norfolk (Carstone)	200
Total	400

The National Planning Policy Framework

- 1.8 The National Planning Policy Framework (NPPF) came into force in March 2012. The NPPF is Government Policy that reinforces a presumption in favour of sustainable development and seeks to facilitate the sustainable use of minerals. It recognises that it is important that there is a sufficient supply of material to provide the infrastructure, buildings, energy and goods that the country needs. It also recognises that minerals are a finite source which can only be worked where they are found. It also requires that mineral resources are appropriately safeguarded from unnecessary sterilisation together with associated infrastructure, wharfs and rail heads.
- 1.9 The NPPF (Paragraph 145) requires Mineral Planning Authorities to plan for a steady and adequate supply of aggregates by:
- Preparing a Local Aggregate Assessment based on a rolling average of 10 year sales data and other relevant information, and an assessment of all supply options (including marine, dredged, secondary and recycled sources);
 - Participating in the operation of an Aggregate Working Party and taking the advice of that Party into account when preparing their Local Aggregate Assessment;
 - Making provision for the land-won and other elements of their Local Aggregate Assessment in their mineral plans taking account of the advice of the Aggregate Working Parties and National Aggregate Co-ordinating Group as appropriate;
 - Taking account of published National and Sub National Guidelines on future provision which should be used as a guideline when planning for the future demand for and supply of aggregates;
 - Using landbanks of aggregate minerals reserves principally as an indicator of the security of aggregate minerals supply, and to indicate the additional provision that needs to be made for new aggregate extraction and alternative supplies in mineral plans;
 - Making provision for the maintenance of landbanks of at least 7 years for sand and gravel and at least 10 years for crushed rock, whilst ensuring that the capacity of operations to supply a wide range of materials is not compromised. Longer periods may be appropriate to take account of the need to supply a range of types of aggregates, locations of permitted reserves relative to markets, and productive capacity of permitted sites²;
 - Ensuring that large landbanks bound up in very few sites do not stifle competition; and
 - Calculating and maintaining separate landbanks for any aggregate materials of a specific type or quality which have a distinct and separate market.
- 1.10 Paragraph 143 (bullet 2) of the NPPF specifically requires Local Planning Authorities, when preparing plans, to take account of the contribution that substitute or secondary and recycled materials and minerals waste would make to the supply of materials, before considering the extraction of minerals, whilst aiming to source minerals supplies indigenously.

Guidance on the Managed Aggregate Supply System (MASS)

- 1.11 Guidance on the Managed Aggregate Supply System (2012) was cancelled and incorporated into the Planning Practice Guidance Suite launched in April 2014.

² Planning Practice Guidance (Paragraph: 064 Reference ID: 27-064-20140306) states “*Mineral Planning Authorities should also look at average sales over the last three years in particular to identify the general trend of demand as part of the consideration of whether it might be appropriate to increase supply.*”

The new Planning Practice Guidance Suite still recognises the important role the Aggregate Working Parties play in delivering a steady and adequate supply of aggregates by producing fit for purpose and comprehensive data on aggregates covering specific geographical areas. The guidance suite also recognises the important role AWP's play in providing advice to individual mineral planning authorities and the National Aggregate Co-ordinating Group. However, this group has not met for a number of years and did not meet in 2014 or 2015.

Section 2: Aggregate Sales, Reserves and Landbanks

- 2.1 Data on land won aggregates and crushed rock reserves and sales together with information on recycled and secondary aggregates, marine aggregates and the capacity of wharves and rail depots to handle aggregates has been derived from both the Local Aggregate Assessments produced by the Mineral Planning Authorities within the East of England and the annual survey returns. The data for 2014 has been derived from the four yearly national survey which was undertaken by British Geological Survey (BGS) on behalf of DCLG. It should be noted that at the time this Annual Monitoring Report was produced, the national survey 2014 had not been formally issued. However, BGS was able to share the relevant data for the East of England authorities to assist in completing the AMR and provided assurances that such data would not be subject to change having had Ministerial sign off.

Sand and gravel

- 2.2 Aggregate sand and gravel is found throughout the East of England and all the MPAs contribute towards the sub-national apportionment.
- 2.3 A list of existing active and inactive aggregate extraction sites is set out in Appendix 3.

Crushed rock

- 2.4 The crushed rock resource in the East of England is not of sufficiently high quality for it to be economic to transport any significant distance and is therefore not a truly regional resource. However, it is a non-energy mineral that may be used in substitution for aggregate in some situations depending on specification. Whilst the 2009 DCLG guidelines have resulted in the reduction in the Cambridgeshire and Peterborough apportionment figure for Crushed Rock to 200,000 tonnes per annum (tpa); the Cambridgeshire and Peterborough MPAs intend to maintain a landbank based on an extraction rate of 300,000tpa (Cambridgeshire and Peterborough Minerals and Waste Core Strategy policy CS6).
- 2.5 Norfolk intends to continue to maintain the 200,000 tpa crushed rock apportionment (Core Strategy and Minerals and Waste Development Management Policies Development Plan Document 2010-2026).

Aggregate Sales

2.6 Table 2 below reflects the three year sales for the periods 2012 – 2014 and 2013 – 2015 as per Planning Practice Guidance paragraph 064 in order to identify the general trend of demand as part of the assessment as to whether it may be appropriate to increase supply. Figure 1 sets out the 10 year trend for sales of sand and gravel whilst Figures 2(a) and 2(b) illustrate sales data of aggregate for MPAs in the East of England for 2014 and 2015 respectively. A full list of sales data for the 10 year periods from 2005 – 2014 and 2006 - 2015 is available in Appendices 4(a) and 4(b).

Table 2: Land-Won Aggregate Sand and Gravel: Sales 2012-2014 & 2013-2015³

	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>Average 2012-2014</u>	<u>Average 2013-2015</u>
Sand & Gravel	Thousand tonnes					
<u>Bedford, Central Bedfordshire & Luton</u>	<u>1,197</u>	<u>1,255</u>	<u>1,622</u>	<u>1,322</u>	<u>1,358</u>	<u>1,400</u>
<u>Cambridgeshire & Peterborough</u>	<u>1,783</u>	<u>1,837</u>	<u>2,650</u>	<u>2,548</u>	<u>2,090</u>	<u>2,345</u>
<u>Essex, Southend & Thurrock</u>	<u>2,303</u>	<u>3,184</u>	<u>4,368</u>	<u>3,454</u>	<u>3,285</u>	<u>3,669</u>
<u>Hertfordshire</u>	<u>1,124</u>	<u>1,130</u>	<u>1,210</u>	<u>1,224</u>	<u>1,155</u>	<u>1,188</u>
<u>Norfolk</u>	<u>1,131</u>	<u>1,115</u>	<u>1,462</u>	<u>1,415</u>	<u>1,236</u>	<u>1,331</u>
<u>Suffolk</u>	<u>1,088</u>	<u>1,061</u>	<u>1,000</u>	<u>871</u>	<u>1,050</u>	<u>977</u>
<u>East of England</u>	<u>8.6 mt</u>	<u>9.6mt</u>	<u>12.3mt</u>	<u>10.8mt</u>	<u>10.2mt</u>	<u>10.9mt</u>

Crushed rock sales (thousand tonnes)

	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>Average 2012-2014</u>	<u>Average 2013-2015</u>
<u>East of England</u> ⁴	<u>287</u>	<u>355</u>	<u>668⁵</u>	<u>353</u>	<u>436</u>	<u>459</u>

³ To avoid under reporting sales and reserves MPAs have included estimates of sales and reserves figures for sites without a submitted return.

⁴ NB Sales for Cambridgeshire, Peterborough and Norfolk have been aggregated for confidentiality reasons.

⁵ This figure, derived from the 2014 Aggregates Survey, comprises limestone from Cambs & Peterborough and Carstone from Norfolk.

Figure 1: Sales of Sand and Gravel in the East of England 2005-2015

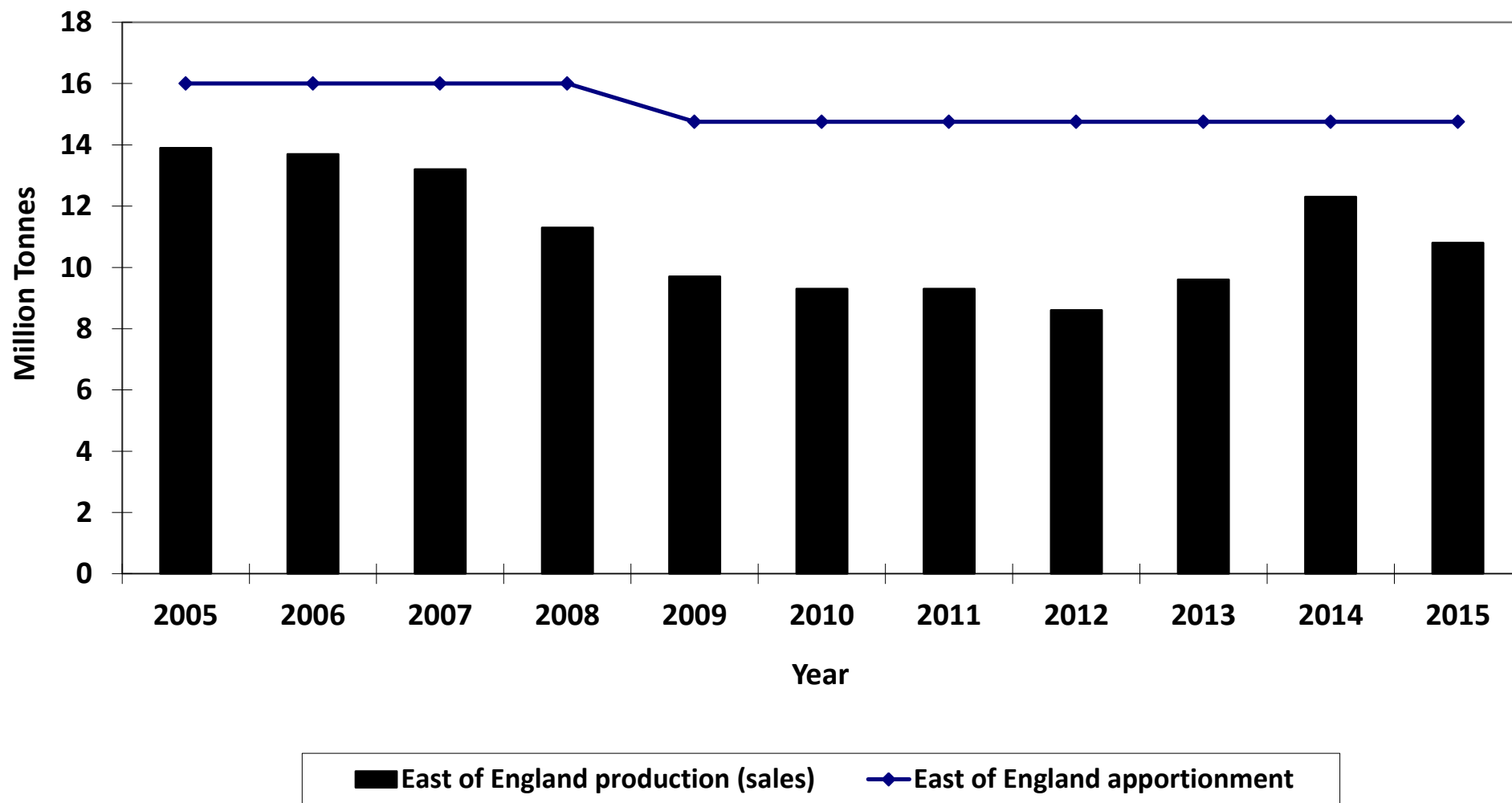


Figure 2(a): Proportion of sand and gravel sales by MPA (2014)

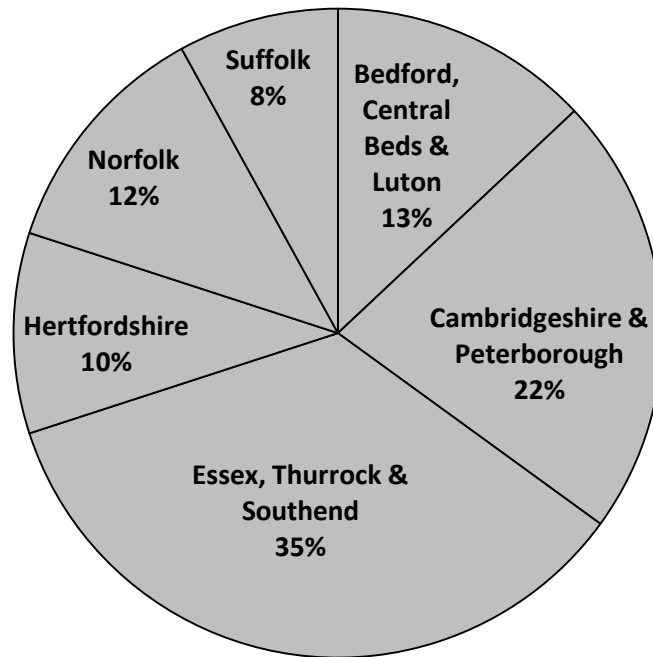
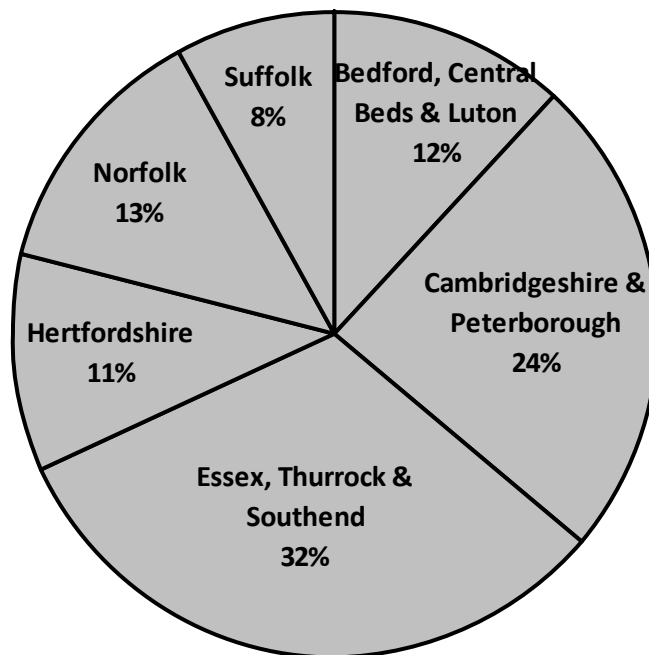


Figure 2(b): Proportion of sand and gravel sales by MPA (2015)



Aggregate Reserves

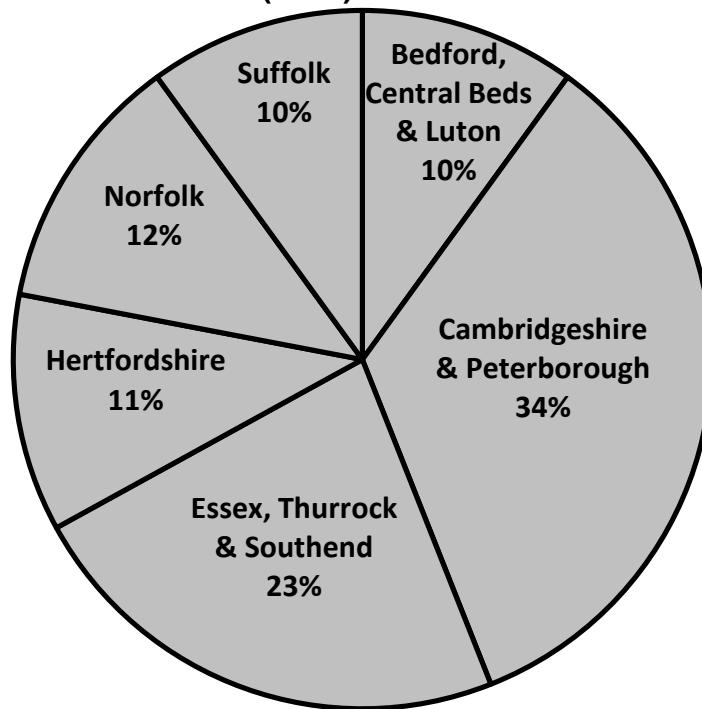
2.6 Table 3 and Figures 3(a), 3(b) and 4 below show aggregate reserves within the East of England. A full list of reserves data covering the periods 2005 – 2014 and 2006 - 2015 are available in Appendices 5(a) and 5(b). A list of permissions granted, refused or withdrawn in each MPA is set out in Appendix 6 and provides an indication of the reserves coming forward in each area.

Table 3: Land-Won Aggregates: Reserves and Landbanks 2014 and 2015

	Sub-Regional Apportionment				
	Reserves (as at 31/12/14) ⁶	Reserves (as at 31/12/15)	Annual Call On Reserves (2005-20)	Landbank (years) (as at 31/12/14)	Landbank (years) (as at 31/12/15)
Sand & Gravel	(thousand tonnes)			(years)	
Bedford, Central Bedfordshire & Luton	13,559	19,386	1,840	7.4 years	10.5 years
Cambridgeshire & Peterborough	45,410	43,330	2,880	15.8 years	15.0 years
Essex, Thurrock & Southend-on-Sea	30,724	32,687	4,450	6.9 years	7.3 years
Hertfordshire	14,440	13,216	1,390	10.4 years	9.5 years
Norfolk	16,922	18,288	2,570	6.6 years	7.1 years
Suffolk	13,205	13,190	1,620	8.2 years	8.1 years
East of England	134,260	140,097	14,750	9.1 years	9.5 years
Crushed Rock					
Cambridgeshire & Peterborough Limestone	3,012	2,680	200	15.1 years	13.4 years
Norfolk carstone	1,795	1,735	200	9.0 years	8.7 years

⁶ Figures derived from 2014 national survey by BGS

**Figure 3(a): Reserves of Sand and Gravel by MPA
(2014)**



**Figure 3(b): Reserves of Sand and Gravel by MPA
(2015)**

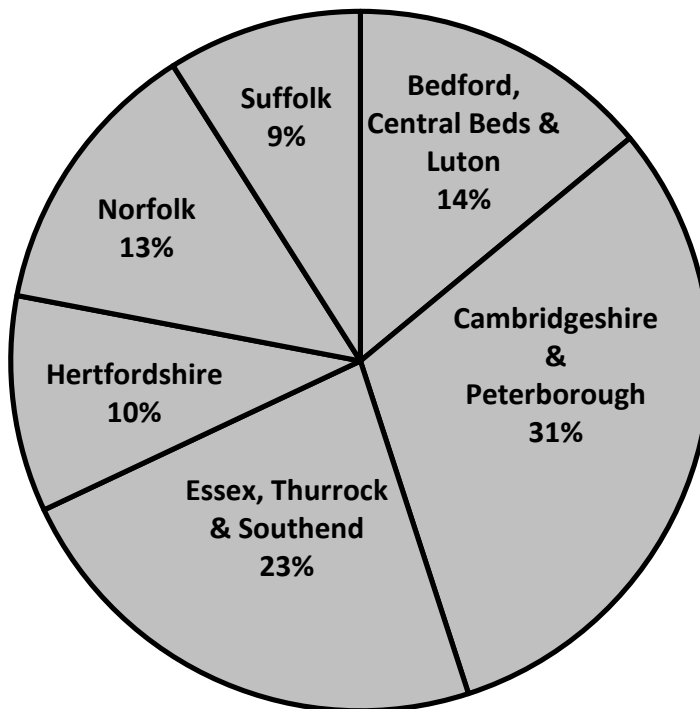
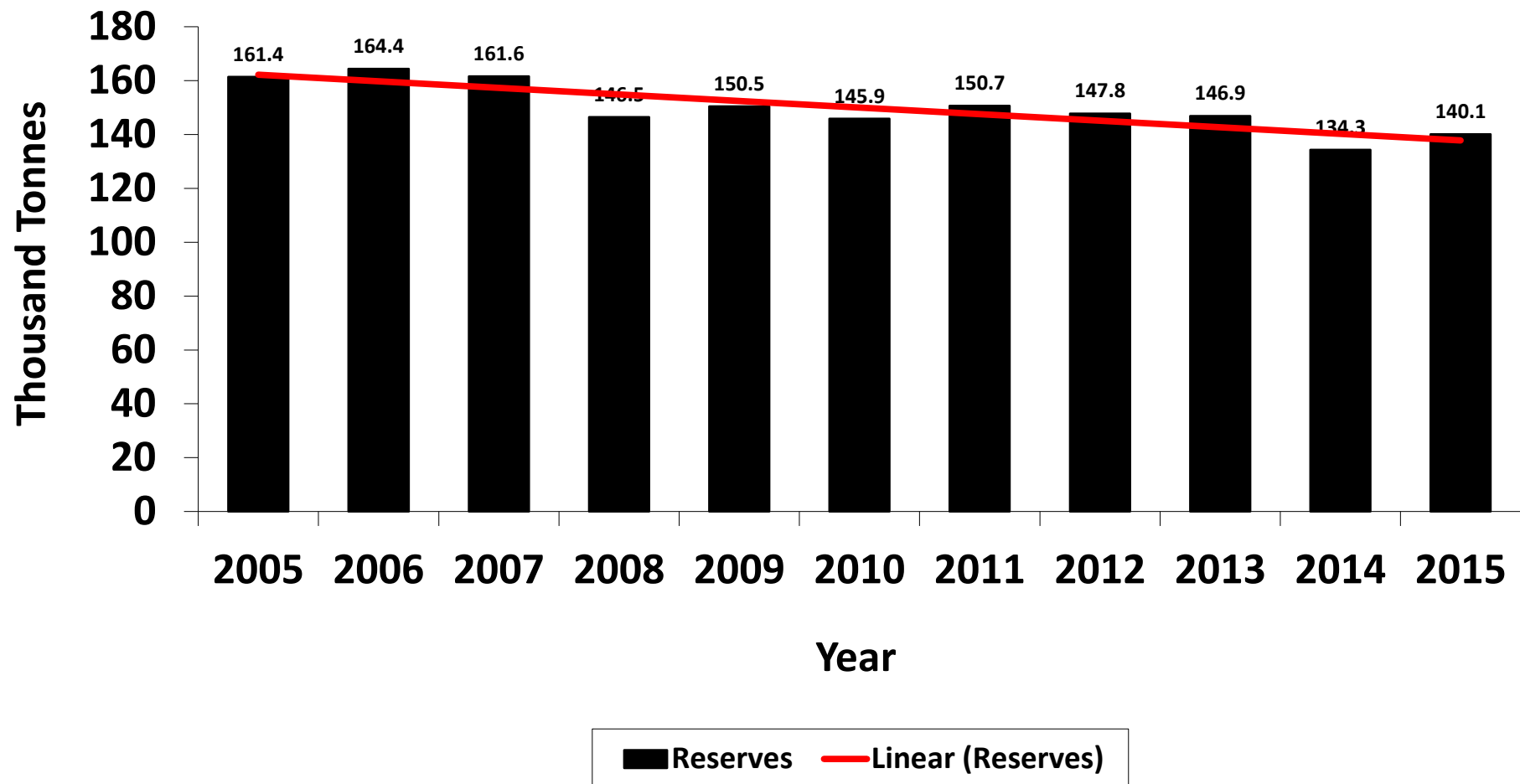


Figure 4: Reserves of Sand and Gravel in the East of England 2005 - 2015



Section 3: Non-Energy Minerals

- 3.1 DCLG requires data on sales and reserves of non-energy minerals other than aggregate sand gravel and crushed rock, to be included within the Annual Monitoring Reports. This, it is assumed, only relates to minerals which potentially substitute for aggregate. In general terms this is likely to be chalk, building stone and clay. No data has been supplied by any of the MPAs that non-energy minerals other than crushed rock have been used for aggregate purposes within their areas.

Section 4: Secondary and Recycled Aggregates

- 4.1 The NPPF specifically requires MPAs to take account of the contribution made by substitute, secondary and recycled aggregates before considering the extraction of indigenous materials.
- 4.2 Secondary aggregates are produced as a by-product of other mining or quarrying activities and may include china clay and slate waste. They can also be created as a by-product of industrial processes. These include incinerator bottom ash and blast furnace slag.
- 4.3 Recycled aggregates comprise materials produced by the recycling of construction and demolition waste and include crushed concrete, bricks, glass, asphalt planings and spent rail ballast.
- 4.4 Even though these materials continue to play an increasingly important role as a substitute for primary aggregates it is difficult to obtain accurate figures of the volumes produced.

Location of Recycling Facilities

- 4.5 The locations of authorised recycling facilities throughout the East of England are set out in Appendix 7.

Section 5: Road Planings arisings

- 5.1 DCLG requires information on road planing arisings. The Highway Authorities for each MPA are likely to hold data on the volumes and tonnages of road planings produced. Table 5 below states road planing arisings in 2014 and 2015, although it should be noted that some Highway Authorities were only able to supply tonnages recorded over financial years.

Table 5: Tonnage of Road Planing Arisings produced in East of England 2014 and 2015

Authority	Tonnage of road planing arisings (2014)	Tonnage of road planing arisings (2015)
Bedford Borough, Central Bedfordshire, Luton Borough	Bedford = 21,543 Cent Beds = 15,499 Luton = <u>15,000</u> 52,042	Bedford = 26,930 Cent Beds = 10,962 Luton = <u>18,000</u> 55,892
Cambridgeshire & Peterborough	60,310 ⁷	27,490
Essex, Thurrock & Southend- on-Sea	Essex = 83,000 ⁸ Thurrock = <u>3,304</u> 86,304	Essex = 90,000 ⁸ Thurrock = <u>4,804</u> 94,804
Hertfordshire	42,000	50,000
Norfolk	25,565	25,087
Suffolk	46,492	57,059

⁷ 2014 Data not available for Peterborough

⁸ NB Figures only recorded for financial year

Section 6: Imports and Exports between AWP Areas

- 6.1 DCLG requires the Annual Monitoring Report to include data on imports and exports between AWP areas. This focuses on wharves and railhead facilities. The 2014 national survey undertaken by BGS is anticipated to contain additional information on movements. Once that survey is formally published, it may be appropriate, depending upon the relevance of such additional information, for an addendum to this Annual Monitoring Report to be issued.

Imports

- 6.2 Returns of data for imports during 2014 proved difficult to assemble with the single MPA which supplied a figure being an estimate. The figure would therefore so under represent an accurate figure for imports to the East of England as to be meaningless. In 2015, however, the returns were considerably more complete and show that over 2.2 million tonnes of aggregate (sand and gravel and crushed rock) were imported into the East of England via aggregate rail depots and wharfs. Such material was imported from the following sources:
- East Midlands;
 - South West;
 - Scotland;
 - The Channel; and
 - Europe (Belgium, Norway, Denmark).
- 6.3 It is considered that the 2.2 million tonnes reported above remains an under-estimate caused by an incomplete set of returns and the fact that aggregates may have been imported via road. The AMR is unable to state the tonnages imported from each area for confidentiality reasons.

Exports

- 6.4 As with imports, figures for exports in 2014 could not be collected due to an incomplete set of survey returns. Data in 2015 fared little better with only a single return from Essex County Council indicating that exports amounted to approximately 100,000 tonnes of aggregate to authorities outside the East of England (East Midlands and London) via rail and wharves. Again, this figure is considered to reflect an under-representation due to the incomplete set of survey returns being submitted.
- 6.5 Appendix 8 sets out the locations of Rail Depots and Wharves in the East of England in 2014-2015.

Section 7: Major Construction Projects

- 7.1 DCLG requires the Annual Monitoring Reports to include information on major construction projects within the East of England.
- 7.2 In order to provide some focus, major construction projects have been taken to be significant transport/infrastructure projects and residential/mixed residential schemes in excess of 200 units. Table 6 below sets out those construction projects that have been identified in the East of England as commencing or on-going in 2014 and 2015.

Table 6: Major Construction Projects in the East of England 2014 and 2015

Mineral Planning Authority	Major Construction Projects
Bedford, Central Bedfordshire & Luton	<ul style="list-style-type: none"> • Junction 10a of M1 improvement works. • A5-M1 Link Road
Cambridgeshire & Peterborough	<ul style="list-style-type: none"> • East Coast Main Line - Peterborough station enhancements (new platforms and track works). Nene sidings 12 car capability. (Now completed). • Hampton Urban Extension (Peterborough) = 5000+ dwellings and employment land development – Alwalton Hill / Gt Haddon Employment Area, Peterborough – 100+ha of employment development. • Cambridge Southern Fringe – 4257 homes with permission across 4 sites (Bell School, Clay Farm, Glebe Farm, Trumpington Meadows).. • A1139 Fletton Parkway Road widening J17-J2 • Bourges Boulevard redevelopment, Peterborough • Long Causeway • Whittlesey Washes (Environment Agency flood defence scheme)
Essex, Thurrock & Southend-on-Sea	<ul style="list-style-type: none"> • Crossrail rail infrastructure project The line will link Reading (Berkshire) to Shenfield (Essex). The project will include a significant amount of tunnelling works. • Northern Approach Road (Phase 3), Colchester /A12 jn 28

	<ul style="list-style-type: none"> • A176 Nether Mayne Improvement Scheme, Basildon • Colchester Park and Ride, Off A12 J28
Hertfordshire	<ul style="list-style-type: none"> • Hatfield Station Improvements (highways project) • Terlings Park, Gilston (200 dwellings) • Former Sappi Site, Hemel Hempstead (450 dwelling mixed use devt) • Land adjacent The Manor Estate, Hemel Hempstead (325 dwellings) • Former Roche building, Welwyn Garden City (209 dwellings) • Phases 1 & 4, junction of Langley Lane & Aerodrome Way, Abbots Langley (237 dwellings & non-residential devt) • International University , Bushey (216 dwellings) • St Albans City College (329 dwellings & non-residential devt) • Former Mastercare Service & Distribution, Stevenage (386 dwellings)
Norfolk	<ul style="list-style-type: none"> • Postwick Hub (Junction Improvements) • White House Farm (1,200 dwellings) • Threescore-Bowthorpe (1,000 dwellings) • Wymondham (2,420 dwellings) • South Bradwell (link road, 850 dwellings, employment land)
Suffolk	<ul style="list-style-type: none"> • A11 Eleveden Bypass • Gt Blakenham Energy from Waste facility • Port of Felixstowe, nine berth extension • Countywide 4,019 dwellings completed

Section 8: Major Trends and Events

East of England

- 8.1 The sales of sand and gravel in the East of England during 2014 was 12.3 million tonnes (Mt). This represents a 28% increase in the levels of sales experienced in 2013 albeit an approximate 11% drop since 2005. During 2015 sales of sand and gravel in the East of England was 10.8 Mt. This represents a decrease of 12% in sales experienced in 2014 albeit an increase on figures of earlier years by approximately 26% and 13% in 2012 and 2013 respectively.
- 8.2 Permitted reserves of sand and gravel within the East of England at the end of 2014 stood at 134.3 Mt. This represents over an 8% decrease since 2013. Using the apportionment figure derived from the National and Regional Guidelines 2005-2020 the landbank for the East of England slipped slightly from 10 years to 9.1 years. As at the end of 2015, permitted reserves of sand and gravel within the East of England stood at 140.1 Mt, representing an increase of over 4% since 2014. Applying the above apportionment figure, the landbank for the East of England rose marginally to 9.5 years.
- 8.3 The distribution of permitted reserves for sand and gravel between MPA's in 2014, as shown in Figure 3(a), remained broadly comparable with recent years. Norfolk increased its reserve proportion by 3% whilst Cambridgeshire and Peterborough, and Suffolk both increased their reserve proportion by 1%. Bedford, Central Bedfordshire and Luton decreased their proportion by 5% since 2013. No change was recorded in either Essex, Southend-on-Sea and Thurrock or Hertfordshire. This pattern of distribution was broadly replicated in 2015 as shown in Figure 3(b). Bedford, Central Bedfordshire and Luton increased its reserve proportion by 4% and Norfolk increased its proportion by 1%. Cambridgeshire and Peterborough decreased its proportion by 3% whilst Hertfordshire and Suffolk recorded falls of 1%. Essex, Thurrock and Southend-on-Sea maintained its proportion from the previous year.
- 8.4 In terms of the level of new aggregate permissions in the East of England a total of 4.7 Mt of sand and gravel was approved during 2014 whilst 0.8 Mt was refused. This increase over previous years was predominantly due to permissions being granted in Norfolk alone totalling over 2.5 Mt. In 2015, a total of 11.1 Mt of sand and gravel was approved with no MPA issuing any refusals. The bulk of this figure was largely due to permissions granted by Essex and Norfolk. Further details on aggregate applications determined within the region are available within Appendix 6.
- 8.5 Within the East of England AWP area it is proposed to make provision for 14.75 million tonnes per annum (mtpa) of land-won sand and gravel and 0.4mtpa of crushed rock based on sub-national apportionment figures which are still be applied in every authority. The MPAs have already planned for sufficient reserves to meet these figures on this basis through the forward planning process. The permitted reserves in the East of England at the end of 2014 would enable these figures to be achieved for 9.1 years for land-won sand and gravel and between 9.0 years (carstone) and 15.1 years (limestone) for crushed rock. Permitted reserves in the East of England at the end of 2015 would enable these figures to be achieved for 9.5 years for land-won sand and gravel and between 8.7 years (carstone) and 13.4 years (limestone) for crushed rock.
- 8.6 The provision of 13.43 mtpa for land-won sand and gravel is in excess of the 10 year sales average (between 2005-2014) of 11.09 Mt. The 10 year average sales for

crushed rock is 0.40 Mt which corresponds exactly with the apportionment figure. The provision of 14.01 mtpa for land-won sand and gravel exceeds the 10 year sales average of 10.78 Mt for the period 2006-2015 with 10 year average sales for crushed rock standing at 0.39 Mt. Overall there is a healthy landbank of permitted aggregate reserves in the East of England. EEAWP can, therefore, advise the National Co-ordinating Group that the Authorities comprising the East of England continue to offer a full contribution to both national and local aggregate needs.

Bedford Borough, Central Bedfordshire and Luton

- 8.7 The 2014 aggregate sand and gravel sales for Bedford, Central Bedfordshire and Luton increased by 29.2% from 2013. The 10 year sales average in the area for 2005 - 2014 stood at 1.29 Mt. Reserves of sand and gravel in the area at the end of 2014 saw a 37.5% decrease over the previous year resulting in a landbank of 7.4 years. In 2015 aggregate sand and gravel sales decreased by 18% from its 2014 level with the 10 year sales average for 2006 - 2015 standing at 1.26 Mt. Sand and gravel reserves as at the end of 2015 show a 43% increase over 2014 giving a landbank of 10.5 years. This significant difference is questionable and, looking at the longer term trend (Appendix 5(b)), it would appear that the reserves figure returned for the 2014 national survey is dubious. It should also be noted that some of the sales figures have been used for industrial sand and reserve figures have been adjusted down by 50% at the relevant sites to reflect this.

Cambridgeshire and Peterborough

- 8.8 In Cambridgeshire and Peterborough sales of sand and gravel during 2014 increased to 2.65 Mt which is 44% greater than those recorded in 2013. Aggregate sand and gravel reserves in 2014 for Cambridgeshire and Peterborough fell by 7.3% since 2013. Based on the available figures the landbank at the end of 2014 was 15.8 years. Sales of sand and gravel in 2015 fell slightly to 2.55 Mt, a decrease of almost 4% from those in 2014. Aggregate sand and gravel reserves in 2015 stood at 43.33 Mt, a fall of 4.6% from 2014 giving a landbank of 15 years.
- 8.9 Cambridgeshire and Peterborough is also required to meet an apportionment for the production of crushed rock, namely limestone. Sales information pertaining to crushed rock in Cambridgeshire and Peterborough has been collated with sales in Norfolk for confidentiality reasons.
- 8.10 Reserves of limestone from Cambridgeshire and Peterborough at the end of 2014 decreased by 20.0% since the previous year to 3.0 Mt which resulted in a landbank of 15.1 years applying the apportionment figure. At the end of 2015 reserves stood at 2.68 Mt. a decrease of 11% from 2014 equating to a landbank of 13.4 years.

Essex, Thurrock and Southend-on-Sea

- 8.11 The sales of sand and gravel for the Essex area in 2014 have seen a 37% increase since 2013 with the 10 year sales average remaining constant at 3.4mt. Reserves within Essex for 2014 decreased by 6.6% over those recorded for the previous year equating to a landbank for sand and gravel in the Essex area of 6.9 years. In 2015 sales of sand and gravel fell back by 21% to 3.45 Mt resulting in a small reduction in the 10 year sales average to 3.33 Mt. Reserves as at the end of 2015 had increased by 6% from 2014 giving a landbank of 7.3 years.

Hertfordshire

- 8.12 Sales of sand and gravel in Hertfordshire during 2014 increased slightly by 7.0% since 2013 which results in a 10 year sales average of 1.1 Mt. The reserves of sand and gravel in the area at the end of 2014 saw a decrease of 11% since the previous year standing at 14.44 Mt. The landbank for sand and gravel in Hertfordshire at the end of 2014 stood at 10.4 years. Sand and gravel sales during 2015 remained generally constant with the previous year increasing by just 1% maintaining the 10 year sales average at 1.1 Mt. Reserves as at the end of 2015 stood at 13.22 Mt, a decrease of 8% from the 2014 figure, providing a landbank of 9.5 years.

Norfolk

- 8.13 Within Norfolk the sales of sand and gravel in 2014 increased by 31.1% since 2013 to 1.46 Mt. The level of reserves for Norfolk at the end of 2014 stood at 16.9 Mt which represents a 26.9% increase on the previous year. Norfolk's landbank for sand and gravel in 2014 stood at 6.6 years. Sand and gravel sales in 2015 amounted to 1.41 Mt, representing only a 3% decrease from the 2014 figure. Reserves as at the end of 2015 stood at some 18.3 Mt, representing an increase of 8% over the figure for the previous year, and equating to a landbank of 7.1 years.
- 8.14 Norfolk is also required to meet an apportionment for crushed rock, namely carstone, in addition to that for sand and gravel. The sales of Norfolk carstone and Cambridgeshire and Peterborough crushed rock for 2014 were recorded as 0.67 Mt tonnes, this figure having been combined for confidentiality reasons. This represented a 0.31 Mt increase since 2013 equating to an 88% increase. Reserves as at the end of 2014 stood at 1.79 Mt, a 2.5% decrease from the previous year, equating to a landbank of 9 years. Sales of Norfolk carstone and Cambridgeshire and Peterborough crushed rock for 2015 amounted to 0.35 Mt. This marks a significant decrease of 47% from the 2014 figure, albeit returning to a level more comparable with sales in earlier years (Appendix 4(b)). Reserves of carstone as at the end of 2015 stood at 1.74 Mt, a 3% decrease from 2014, providing a landbank of 8.7 years.

Suffolk

- 8.15 Sales of sand and gravel for Suffolk in 2014 were recorded as 1.0 Mt which represents a 5.7% decrease from the previous year. Reserves of sand and gravel in the area at the end of 2014 saw a 3.6% fall from the previous year's figure and standing at 13.21Mt. This results in a landbank for sand and gravel of 8.2 years, a marginal drop from the previous year. In 2015 sand and gravel sales amounted to 0.87 Mt, representing a 13% decrease from the 2014 figure. Reserves as at the end of 2015 remained broadly identical to those recorded in the previous year standing at 13.19 Mt resulting in a landbank figure of 8.1 years.
- 8.16 It should be noted that the 2012 AMR reported a reserve figure of 14mt. This was an error and included additional mineral which was released when the sand and gravel Flixton extension was granted planning permission in March 2013.

**Appendix 1: Membership of the East of England Aggregates Working Party
in 2014 and 2015**

Chairman	
Andrew Cook	Essex County Council
Secretary	
Susan Marsh	Central Bedfordshire Council
Mineral Planning Authority Representatives	
Ann Barnes	Cambridgeshire County Council
Roy Romans	Central Bedfordshire, Bedford Borough and Luton Councils
Philip Dash	Essex County Council
Alethea Evans	Essex County Council
Hamish Barrell	Essex County Council
Trish Carter-Lyons	Hertfordshire County Council
Chris Stanek	Peterborough City Council
Steve Withstanley	Peterborough City Council
Gemma Wildman	Peterborough City Council
Richard Drake	Norfolk County Council
Nick Johnson	Norfolk County Council
Caroline Jeffery	Norfolk County Council
Paul Clarke	Thurrock Borough Council
Richard Hatter	Thurrock Borough Council
Matthew Thomas	Southend BC
Terry Burns	Suffolk County Council
Irina Davis	Suffolk County Council
James Cutting	Suffolk County Council
Minerals Industry Representatives	
Richard Fifield	BMAPA
Mark Russell	BMAPA
Peter Dawes	Frimstone Ltd/BAA
Mike Courts	Brett Aggregates Ltd
Richard Ford	Brett Aggregates Ltd
Kirsten Hannaford-Hill	Cemex/MPA
Mick Daynes	Hanson UK
Keith Bird	Hanson UK
Jonathan Garbutt	Hope Construction Materials
David Payne	Mineral Products Association (MPA)
Nick Horsley	Sibelco
Mike Pendock	Tarmac
Peter Lemon	Middaggs
Other Representatives	
Eamon Mythen	Communities and Local Government (DCLG)
David Clarke	CDC Demolition
Peter Dawes	Frimstone / BAA
Nat Percival	Marine Management Organisation
Ian Thomas	East Midlands AWP
Chris Waite	South East and London AWP

Appendix 2: AWP Activities in 2014 and 2015

2014

The East of England Aggregate Working Party met three times during 2014 - the first on the 29th January 2014, the second on the 5^h June and then on the 2nd October 2014. The following items were discussed during the first meeting in January 2014:

- Revisions to the Terms of Reference;
- Andrew Cook was re-elected as chair for a 12 month period;
- New requirements by DCLG to submit the AMR by 30th June each year;
- Timetable agreed for production of AMR to meet new deadline;
- A high level check list was agreed for considerations of LAAs;
- It was agreed that in future LAAs would be considered at the AWP meeting in October each year;
- Draft LAAs for the Bedfordshire Authorities and Norfolk County Council were discussed;
- Feedback was given from the Joint Secretaries meeting at DCLG;
- DCLG update – The Taylor Review; the Nationally Significant Infrastructure Regime: more flexibility in dealing with ROMPs and shale gas including fracking;
- OFT and Competition Commission Report on Aggregates, Cement and Ready Mixed Concrete Market Investigation (Provisional Findings);
- Draft LAAs outside the area discussed – Oxfordshire, Buckinghamshire and Surrey.

At the meeting in June the following items were discussed:

- The East Coast Offshore and Inshore Marine Plan – following a presentation by the Marine Management Organisation;
- Marine Aggregate Capability and Portfolio Report 2013 (Reserves and Resources) – it was agreed that a representative from the Crown Estates should be asked to a subsequent meeting to answer questions that members had on this report and to clarify the role of the Crown in the provision of marine aggregates;
- Draft AMR2013 and whether or not to include the capacity of unauthorised recycling sites. Members agreed that generally only figures from authorised sites should be used but if there was a site that was significant then this should be noted. Also figures based on apportionment figures – apart from Norfolk;
- Review of Local Aggregates Assessments Report. Agreed that this was a non contentious factual report. This was the first year that LAAs had been produced and a variety of formats were being used. In future all LAAs would be considered at the October meeting of the AWP;
- Safeguarding of wharves from other development – agreed this was justified;
- The Norfolk LAA was considered.

The meeting in October 2014 was used to discuss the draft LAAs coming forward from the constituent authorities. Each authority made a presentation and highlighted the main matters of interest in their LAA.

2015

Two meetings were held on 5th February and 22nd October 2015. A further meeting had been anticipated in June but this was not held due to the funding uncertainties relating to the contract for the Secretariat. In addition no AMR was prepared for 2014 due to the lack of funding for the Secretariat and the uncertainty over the timescale for the 4 year national survey taking place and being issued.

At the February 2015 meeting the following matters were discussed:

- Crown Estate – the role of marine aggregates (presentation by Nick Everington);
- It was reported that DCLG had indicated that BGS were to be appointed to undertake the 4 year national survey but this had not yet been confirmed. This would mean that there would be a delay and it would not be possible to complete the AMR 2014 by 30th June 2015. It could also mean that there is a delay in the production of LAAs;
- Apportionment/10 year average discussion;
- DCLG update – contract for national survey – will be in contact once consultants appointed to undertake this work with regard to implementation. AMRI 2013 survey to be published in February. Contracts for AWP secretaries still under discussion;
- Minerals Planning Survey – undertaken by the Mineral Products Association for many years. Noted that reserves not being replenished and new planning applications not being made for a variety of reasons – including capital cost, cost of application and mothballed sites;
- The Mineral Products Association indicated that a LAA Guide produced by the MPA and Planning Officers Society (POS) was to be published soon.

At the October 2015 meeting the following matters were discussed:

- The AWP Secretariat contract had now been awarded and CBC had again secured the EEAWP contract;
- Issues and timetable for the publication of the 2014 national survey undertaken by BGS;
- Apportionment/10 year average discussion;
- The POS/MPA LAA Practice Guidance;
- The MPA Restoration Fund;
- The Aggregate Levy – EU ruling and shale;
- Wharves and railheads – Safeguarding;
- Draft LAA for Herts CC;
- National update – 9 AWP Secretariat contracts awarded. Will find out outcome of spending review in late November (implications for continuing AWP Secretariat contracts). A meeting of the NCG will not be arranged until the results of the Spending Review are known.

Appendix 3: Permitted Aggregate Extraction Sites in 2014 & 2015

Bedford Borough, Central Bedfordshire and Luton		
Address	Grid reference	Site Operator
Sand and gravel		
Cainhoe	TL 102 375	Thomas Brothers Ltd
Willington (incl Octagon Farm)	TL 097 502	Hope Construction Materials
Black Cat	TL 16480 55480	Hope Construction Materials
Broom South	TL 17321 41838	Tarmac Ltd
Potton/Myers Farm (sand only)	TL 225 503	Hope Construction Materials
Sandy Heath (sand only)	TL 205 492	Tarmac Ltd
Simpsonhill Plantation (sand only)	TL 082 372	Hanson
Churchways (including Checkleywood and Riddy's Pit)	SP 936 294	Aggregate Industries UK Ltd
Grovebury Quarry, Grovebury Road	SP 924 238	Aggregate Industries UK Ltd
Mundays Hill	SP 940 282	Aggregate Industries UK Ltd
Fox Corner	SP 928 293	DB Standing & Son
Bryants Lane	SP 929 288	LB Silica Sand Ltd
Reach Lane	SP 932 284	LB Silica Sand Ltd
Chamberlains Barn	SP 932 265	AWE
Double Arches	SP 938 288	Aggregate Industries UK Ltd
Pratts (Billington Road)	SP 931 240	AWE
Stone Lane	SP 929 290	Fox Owmbly

Cambridgeshire & Peterborough		
Address	Grid reference	Site Operator
Sand & Gravel		
Active		
Dernford Farm, Sawston	546830 250960	RJD Ltd
Mepal Quarry (Sutton Gault)	541650 282090	Frimstone
Must Farm (part)	523080 296950	Hanson Aggregates
Needingworth Quarry	538740 273010	Hanson Aggregates
Block Fen II	542500 284000	Lafarge Aggregates Ltd
Kennet	569000 268760	Mick George Ltd
Witcham Meadlands/Mepal Quarry	544200 284100	Aggregate Industries UK Ltd
Must Farm (part)	523080 296950	Hanson Aggregates
Little Paxton Quarry II	520000 264200	Aggregate Industries UK Ltd
Pode Hole Quarry	526000 303150	Aggregate Industries UK Ltd
Briggs Farm, Prior's Fen	524999 301056	P J Thory

Tanholt / Eyebury Quarry	523800 301650	Cemex
Maxey Quarry	513400 307310	Tarmac
Thornhaugh II	505750 299400	Aggregate Industries UK Ltd / Mick George Ltd
Cook's Hole	505227 299722	Mick George Ltd
Limestone		
Dimmock's Cote (Crushed rock)	554480 272390	Francis Flower Ltd
Thornhaugh II	505750 299400	Aggregate Industries UK Ltd / Mick George Ltd
Cross Leys Quarry	502800 300600	Mick George Ltd
Cook's Hole	505227 299722	Mick George Ltd

Essex, Thurrock & Southend-on-Sea		
Site Name	Grid Ref	Site Operator
Sand & Gravel		
Martell's Quarry, Ardleigh (including Silica sand)	60508 22828	Aggregate Industries UK Ltd
Bradwell Quarry, Silver End	58198 22108	Blackwater Aggregates
Alresford Creek, Alresford	60621 22085	Brett Aggregates
Brightlingsea Quarry	60705 21839	Brett Aggregates
Elsenham Quarry, Elsenham	55486 22691	Brett Aggregates
Lufkins Farm, Thorrington Road, Great Bentley	60974 22208	Brett Aggregates
Widdington	55274 23102	Carr & Bircher Ltd
Royal Oak, Danbury	58036 20510	Danbury Aggregates
St Cleres Pit, Danbury	57623 20578	Danbury Aggregates
Curry Farm, Bradwell-on-Sea	59960 20550	Dewicks
Crumps Farm, Gt Canfield	58815 22105	Edviron Ltd
Blackleys Quarry, Great Leighs	57300 21930	Frank Lyons Plant Services Ltd
Asheldham	59776 20138	G&B Finch Ltd
Rivenhall Airfield (Waste Facility)	58232 22047	Gent Fairhead & Co Ltd
Birch Quarry	59275 21957	Hanson Aggregates
Bulls Lodge Quarry, Boreham	57362 21173	Hanson Aggregates
Fingringhoe Quarry	60432 22013	JJ Prior Ltd
Colchester Quarry, Stanway	59488 22265	Tarmac
Wivenhoe Quarry	60577 22210	Tarmac
Mill House Farm, West Tilbury	56583 17906	RJD Ltd
Orsett Quarry- Stanford-le- Hope (Thanet Sand)	56711 18058	RJD Ltd
Cobbs Farm	58900 20855	Sewells Reservoir Construction Ltd
Crown Quarry (Ardleigh Reservoir Extension)	60288 22937	Sewells Reservoir Construction Ltd
Highwood Quarry, Little Easton	55993 22270	Sewells Reservoir Construction Ltd
East Tilbury Quarry	56874 17798	S Walsh and Sons Ltd

Hertfordshire		
Site Name	Grid Ref	Site Operator
Sand & Gravel		
Anstey Chalk Quarry	53934 23302	The Anstey Quarry Co. Ltd
Bedwell Park Quarry	52823 20917	Bedwell Park Quarry Co.
Codicote Quarry	52126 21706	Codicote Quarry Ltd
Bovingdon Brick Works	50040 20299	Bovingdon Brick Works Ltd
Great Westwood Quarry	50717 19879	Cemex UK
Hatfield Quarry	51891 20843	Cemex UK
Hoddesdon Quarry	53538 20762	Ingrebourne Valley Ltd
Panshanger Park Quarry	52918 21271	Lafarge Tarmac Ltd
Pole Hole / Hollingson Meads	54519 21229	Frank Lyons Plant Services Ltd
Rickneys Quarry	53225 21552	Hanson Aggregates
Thornley Hall Farm	54882 21812	David Tinney
Tyttenhanger Quarry	51920 20560	Lafarge Tarmac Ltd
Water Hall Quarry	52982 20979	Frank Lyons Plant Services Ltd
Westmill Quarry	53418 21616	Cemex UK

Norfolk		
Site	Grid ref	Site Operator
Sand & Gravel		
Holt	6075,3372	Cemex
Attlebridge	6147 3160	Cemex
Litcham	5899,3167	East Anglian Stone
Crimplesham	5667,3036	Frimstone
Tottenhill	5630,3118	Frimstone
Pentney	5690,3126	Middleton Aggregates
Middleton	5680,3153	Middleton Aggregates
Earsham	6319,2900	Earsham Gravels
Kirby Cane	6380,2833	Lyndon Pallett Group
Carbrooke	5950,3000	Four Leaf Enterprises
Shropham	6003,2940	Breedon Aggregates
Easton	6145,3100	Lafarge Tarmac
Stanfield	5946,3203	East Anglian Stone
Feltwell	5740,2920	Frimstone
Burgh Castle	6483,3042	Folkes Plant
Wymondham	6136, 3002	Longwater Gravel
Ravensingham/Norton Subcourse	6402,2993	Cemex
East Bilney	5965,3188	Middleton Aggregates
East Rudham	5832,3310	Longwater Gravel
Middleton	5675,3144	Delta Roadstone
Carbrooke	5950,3000	Frimstone
Mundham	6338,2971	Earsham Gravels
Easton	6140, 3111	Cemex
Weeting	5788,2870	Lignacite
Horstead	6252,3203	Longwater Gravel
Buxton	6243,3214	Frimstone
Swardeston	6221,3033	Lafarge Tarmac
Beeston Regis	6469,3411	Carter Concrete

Norfolk		
Wormegay	5678,3129	Delta Roadstone
Spixworth	6230,3160	Lafarge Tarmac
Horstead	6258,3183	Lafarge Tarmac
Stody	6075,3338	Frimstone
Longham	5936,3174	McLeod Aggregates Ltd
East Beckham	6154,3407	Gresham Gravels
Crushed Rock		
Middleton	5680,3153	Middleton Aggregates
Snettisham	5684,3349	Frimstone

Suffolk		
Site	Grid ref	Site operator
Sand & Gravel		
Barham, Sandy Lane	TM1338551539	Brett Aggregates Ltd
Barking, Gallows Hill	TM1059453555	Lafarge Tarmac
Bentley, Folly Farm	TM1231836309	Shotley Holdings Ltd
Bramford, Blood Hill	TM1110548330	Swift Recycling Ltd
Bucklesham, Redhouse Farm	TM2548340480	Lafarge Tarmac
Cavenham, Marstons Quarry	TL7581271593	Allen Newport Ltd
Coddenham, Shrubland Quarry	TM1185153663	Brett Aggregates Ltd
Flixton, Flixton Quarry	TM2961386322	Cemex UK Materials Ltd
Foxhall, Foxhall Quarry 4	TM2454443858	Brett Aggregates Ltd
Henham, Henham Quarry	TM4555679089	S Grundon (Ewelme) Ltd
Ingham, The Folly	TL8563971463	TJ & WM Cardy Ltd
Layham, Layham Quarry	TM0129940180	Brett Aggregates Ltd
Timworth, Park Farm	TL8505669131	Lafarge Tarmac
Waldringfield, Waldringfield Quarry	TM2579944768	Brett Aggregates Ltd
Wangford, Wangford Quarry	TM4654777898	Cemex UK Materials Ltd
Wenhaston, Blyth River Pit	TM4106476709	Bardo (Midlands) Ltd
Wetherden, Wetherden Quarry	TL9945962422	S Walsh & Sons Ltd
Wherstead, Pannington Hall	TM1380939565	Brett Aggregates Ltd
Worlington, Bay Farm Quarry	TL6937571665	Frimstone Ltd

Appendix 4(a): Aggregate Sales in the East of England (2005–2014)

SALES (Thousand Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	3 yr Avg (2012 - 2014)	5 yr Avg (2010 - 2014)	10 yr Avg (2005 - 2014)
Sand and Gravel													
Bedford, Central Bedfordshire & Luton	1,683	1,487	1,612	1,016	944	1,040	1,115	1,197	1,255	1,622	1,358	1,246	1,297
Cambridgeshire & Peterborough	3,221	2,763	2,820	3,052	2,315	1,800	1,703	1,783	1,837	2,650	2,090	1,955	2,394
Essex, Thurrock & Southend-on-Sea	4,144	4,066	4,091	3,288	2,794	2,986	2,803	2,303	3,184	4,368	3,285	3,129	3,403
Hertfordshire	965	1,231	1,010	989	1,214	1,173	1,268	1,124	1,130	1,210	1,155	1,181	1,131
Norfolk	2,382	2,450	1,978	1,586	1,378	1,186	1,290	1,131	1,115	1,462	1,236	1,237	1,596
Suffolk	1,475	1,670	1,730	1,403	1,037	1,104	1,078	1,088	1,061	1,000	1,050	1,066	1,265
East of England	13,870	13,667	13,241	11,334	9,682	9,289	9,257	8,626	9,582	12,312	10,173	9,813	11,086
Crushed rock													
East of England	465	462	419	513	337	228	262	287	355	668	437	360	400

Appendix 4(b): Aggregate Sales in the East of England (2006–2015)

SALES (Thousand Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	3 yr Avg (2013 - 2015)	5 yr Avg (2011 - 2015)	10 yr Avg (2006 - 2015)
Sand and Gravel													
Bedford, Central Bedfordshire & Luton	1,487	1,612	1,016	944	1,040	1,115	1,197	1,255	1,622	1,322	1,400	1,302	1,261
Cambridgeshire & Peterborough	2,763	2,820	3,052	2,315	1,800	1,703	1,783	1,837	2,650	2,548	2,345	2,104	2,327
Essex, Thurrock & Southend-on-Sea	4,066	4,091	3,288	2,794	2,986	2,803	2,303	3,184	4,368	3,454	3,669	3,222	3,334
Hertfordshire	1,231	1,010	989	1,214	1,173	1,268	1,124	1,130	1,210	1,224	1,188	1,191	1,157
Norfolk	2,450	1,978	1,586	1,378	1,186	1,290	1,131	1,115	1,462	1,415	1,331	1,283	1,499
Suffolk	1,670	1,730	1,403	1,037	1,104	1,078	1,088	1,061	1,000	871	977	1,020	1,204
East of England	13,667	13,241	11,334	9,682	9,289	9,257	8,626	9,582	12,312	10,834	10,910	10,122	10,782
Crushed rock													
East of England	462	419	513	337	228	262	287	355	668	353	459	385	388

Appendix 5(a): Aggregate Sand and Gravel reserves in the East of England (2005-2014)

RESERVES (Thousand Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	3 yr Avg (12-14)	5 yr Avg (10-14)	10 yr Avg (05- 14)
Bedford, Central Beds & Luton	17,787	21,492	25,341	19,334	20,364	22,898	21,573	21,700	21,726	13,559	18,955	20,291	20,577
Cambs & Peterboro'	48,504	48,504	45,684	45,490	49,918	46,200	45,246	47,138⁹	48,967	45,410	47,171	46,592	47,106
Essex, Thurrock & Southend- on-Sea	51,000	50,122	46,684	39,191	36,706	36,934	37,014	35,503	32,885	30,724	33,037	34,612	39,676
Herts	12,585	11,466	10,841	10,869	10,619	10,786	16,700	15,792	16,260	14,440	15,497	14796	13,036
Norfolk	17,027	17,509	17,393	16,069	18,021	15,435	16,079	14,559	13,335	16,922	14,939	15,266	16,235
Suffolk	14,470	15,270	15,640	15,505	14,880	13,615	14,110	13,100¹⁰	13,705	13,205	10,186	11,656	13,405
<i>East of England</i>	161,373	164,363	161,583	146,458	150,508	145,868	150,722	147,792	146,878	134,260	142,977	145,104	150,981

⁹ This figure is taken from the Cambridgeshire and Peterborough LAA (published Dec 2013) and is higher than the final figure reported in the EEAWP collation form for 2012.

¹⁰ The 2012 collation form included an extension to a site which was not permitted until 2013. This explains the reason for a higher reserves figure reported in the 2012 report.

RESERVES (Thousand Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	3 yr Avg (12-14)	5 yr Avg (10-14)	10 yr Avg (05-14)
Cambs & Peterboro' Limestone	3,900	3,137	3,137	2,692	1,625	1,400	4,252	3,826	3,769	3,012	3,536	3,252	3,075
Norfolk Carstone	3,372	2,850	2,850	1,770	1,925	1,782	1,724	1,684	1,841	1,795	1,773	1,765	2,159

Appendix 5(b): Aggregate Sand and Gravel reserves in the East of England (2006-2015)

RESERVES (Thousand Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	3 yr Avg (13-15)	5 yr Avg (11-15)	10 yr Avg (06- 15)
Bedford, Central Beds & Luton	21,492	25,341	19,334	20,364	22,898	21,573	21,700	21,726	13,559	19,386 ¹¹	18,224	19,589	20,737
Cambs & Peterboro'	48,504	45,684	45,490	49,918	46,200	45,246	47,138 ¹²	48,967	45,410	43,330	45,902	46,018	46,589
Essex, Thurrock & Southend- on-Sea	50,122	46,684	39,191	36,706	36,934	37,014	35,503	32,885	30,724	32,687	32,099	33,763	37,845
Herts	11,466	10,841	10,869	10,619	10,786	16,700	15,792	16,260	14,440	13,216	14,639	15,282	13,099
Norfolk	17,509	17,393	16,069	18,021	15,435	16,079	14,559	13,335	16,922	18,288	16,182	15,837	16,361
Suffolk	15,270	15,640	15,505	14,880	13,615	14,110	13,100 ¹³	13,705	13,205 ¹⁴	13,190	13,367	13,462	14,222
<i>East of England</i>	164,363	161,583	146,458	150,508	145,868	150,722	147,792	146,878	134,260	140,097	140,412	143,950	148,853

¹¹ Where some reserves have been used for industrial sand, reserves have been adjusted down by 50% at the relevant sites to account for this.

¹² This figure is taken from the Cambridgeshire and Peterborough LAA (published Dec 2013) and is higher than the final figure reported in the EEAWP collation form for 2012.

¹³ The 2012 collation form included an extension to a site which was not permitted until 2013. This explains the reason for a higher reserves figure reported in the 2012 report.

¹⁴ Assumed entry in BGS Survey of 3,752 thousand tonnes is incorrect and relied on figure in Suffolk CC's return.

RESERVES (Thousand Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	3 yr Avg (13-15)	5 yr Avg (11-15)	10 yr Avg (06-15)
Cambs & Peterboro' Limestone	3,137	3,137	2,692	1,625	1,400	4,252	3,826	3,769	3,012	2,680	3,154	3,508	2,953
Norfolk Carstone	2,850	2,850	1,770	1,925	1,782	1,724	1,684	1,841	1,795	1,735	1,790	1,756	1,996

Appendix 6: Applications Approved, Refused, Withdrawn and Undetermined 2014 - 2015

MPA Bedford, Central Bedfordshire & Luton				
Site Name	Mineral	Description (mineral extraction or recycling)	Decision	Tonnage
2014				
Sandy Heath Quarry, Potton Road, Sandy	Sand	Variation of Cond 3 of Permission 12/1999 to extend time limits for mineral extraction	Granted Permission	N/A (No additional tonnage)
Former Quarry Plant Site, Warren Villas Quarry, New Road, Sandy	Gravel	Change of use of land to an inert waste recycling centre by screening, crushing and washing together with retrospective change of use of land to a mix of fishing and nature conservation uses and associated engineering operations to create fishing swims (Resubmission)	Refused	120,000 tpa
Permitted Reserves = Nil				
2015				
Grovebury Quarry	Sand	Variation of Conds 1 & 5 of Permission BC/CM/2008/21 to vary the phasing of mineral extraction & subsequent restoration of the quarry & Variation of Cond 26 so approved restoration details accord with revised phasing & restoration proposed	Granted Permission	N/A (No additional tonnage)
Broom Quarry, Hill Lane, Old Warden	Sand and Gravel	Variation of Cond 3 of Permission CB/13/03402/MW to extend time period for completing restoration of the quarry	Granted Permission	N/A (No additional tonnage)
Land at Bridge Farm, Bedford Road, Sandy	Sand and Gravel	Creation of a lake as a wildlife habitat by mineral extraction (part retrospective)	Granted Permission	8,500

MPA Bedford, Central Bedfordshire & Luton				
Site Name	Mineral	Description (mineral extraction or recycling)	Decision	Tonnage
Potton Quarry, Potton Road, Everton, Sandy	Sand	Proposal to vary Conds 19 to extend cessation date from 2015 to 25 Sept 2025 2 (working & restoration), 9 (topsoil), 10 (soils), 11 (restoration), 12 (aftercare) & to remove Conds 5 (Phasing), 14 (Wheel cleaning) & 16 (hedgerows), of Permission BC/CM/2004/27	Granted Permission	N/A (No additional tonnage)
Fox Corner Quarry, Woburn Road, Heath & Reach	Sand	First periodic review for determination of new operating conditions at sand extraction site (Review of Old Mineral Permission 152/OMP.2/97 as granted on appeal by Sec of State on 29 Nov 1999	Granted Permission	N/A (No additional tonnage)
Cainhoe Quarry, Ampthill Road, Clophill	Sand	Continuation of sand Extraction, recycling of inert material & restoration site by landfilling of residual waste from on-site wash plant	Granted Permission	N/A (No additional tonnage)
Fox Corner Quarry, Woburn Road	Construction & Demolition Waste	Temporary use of part of active quarry site for recycling of hardcore, rubble and soils to produce secondary aggregates & screened soil products, associated use of a mobile crusher & screen & construction of concrete pad to provide vehicle turning & handling area (part retrospective)	Granted Permission	Approx 5,000 tonnes p.a.
Whitsundoles Farm, Broughton Road, Salford, Milton Keynes	Construction & Demolition Waste	Vary Cond 3 of Permission CB/12/04309/MW to allow for continued use of the temporary inert waste and aggregates storage & recycling facility for a further 12 month period	Granted Permission	30,000 tonnes p.a.
Permitted reserves = 8,500				

MPA Cambridgeshire & Peterborough				
Site Name	Mineral and grid ref	Description (mineral extraction or recycling)	Decision	Tonnage
2014				
Mepal Quarry, Block Fen Drove, Chatteris		Vary Cond 6 of Permission F/02017/08/CM & E/03008/08/CM (extension to Mepal Quarry) to allow deferral of improvement of Block Fen Drove until 31 Dec 2015 (F/02020/12/CM)	Undetermined	N/A
Land at Kennet Hall Farm, Dane Hill, Kennett, Newmarket	Sand and Gravel	Excavation & processing of sand & gravel; reinstatement by importation of inert waste to agriculture & nature conservation after use – NMA to hours for delivery (E/03011/05/CMN 1)	Granted permission	N/A
Land North of Dimmock's Cote Road, Wicken, Ely	Limestone	New schedule of conditions for extraction & processing of limestone (E/00422/98/CM/N1)	Granted permission	N/A

Milton Landfill Site, Butt Lane, Milton, Cambs	Clay	Export of surplus clay from existing stockpile for use in engineering works at other FCC Environment landfill site (S/0470/14/CM)I	Granted permission	N/A
Block Fen Drove, Chatteris		Variation of Cond 2 of Permission F/00363/98 to defer restoration of South Lake for approx. 7 yrs to allow temporary use of land for motorcycle riding (F/02006/13/CM)	Refused	N/A
Eyebury	Sand and Gravel 523266 301604	Quarry	Undetermined	163,000
Permitted reserves = Nil				
2015				

Land at Bridge Farm, Holme Fen Drove, Colne, Cambs	539500 276500	Mineral processing area (to be restored to agriculture) in connection with construction of 2 agricultural reservoirs through the extraction of mineral (E/03004/11/CM)	Granted permission	N/A
Land at Bridge Farm, Holme Fen Drove, Colne, Cambs	Sand and Gravel 539500 276500	Extraction & processing of sand & gravel and construction of access onto Chatteris Rd (B1050) in connection with construction of agricultural reservoirs (E/03006/11/CM)	Granted permission	752,000
Land at Bridge Farm, Holme Fen Drove, Colne, Cambs	539500 276500	Acoustic building associated with access route to the site of two agricultural reservoirs & minerals processing area (F/02008/11/CM)	Granted permission	N/A
Land off Green End, New Farm, Landbeach	547762 266729	Construction of agricultural reservoir (part retrospective) & removal of extracted aggregate – NMA to restoration plan (S/01508/12/CM/N1)	Granted permission	N/A
Thornhaugh IIb	Limestone 506424 299513	Extension of time to work quarry (NB these are not additional reserves)	Granted permission	700,000
Eyebury	Sand and Gravel 523266 301604	Quarry	Granted permission	163,000
Permitted reserves = 915,000				

MPA Essex, Thurrock & Southend-on-Sea				
Site Name	Mineral	Description	Decision	Tonnage
2014				
Wivenhoe Quarry	Sand and Gravel 605268 222144	Quarry extension	Granted permission	19,000
Allens Farm. Elmstead Market	Sand and Gravel 605447 225959	Extraction to facilitate approved construction	Granted permission	4,000
Asheldham Quarry	Sand and Gravel 597642 201842	Extension of time (31 Dec 2029)	Granted permission	1,165,000
Lufkins Farm, Great Bentley	Sand and Gravel 609860 22216	Extension of time (5 years)	Granted permission	No additional reserve
Land to South of Park Farm, Springfield	Sand and Gravel 572988 210741	Winning & working of sand & gravel and associated dry screening processing plant	Granted permission	No additional reserve
Widdington Pit	Sand and Gravel 553163 231439	Continuation of excavation of sand and restoration	Granted permission	No additional reserve
Widdington Pit	Other Minerals 553163 231439	Continuation of excavation of sand and restoration	Granted permission	No additional reserve
Permitted reserves = 1,188,000				
2015				
Bradwell Quarry	Sand and Gravel	Extraction of estimated reserve of 3M tonnes	Granted permission	3,000,000
Stanway Quarry and Fiveways Fruit Farm	Sand and Gravel 595345 222681	Quarry extension via extraction of 2.95M tonnes of sand & gravel; extraction of remaining 0.5M tonnes of sand and gravel; processing of remaining 1.5M tonnes of sand & gravel from Belhouse Quarry to be imported via the existing conveyor link to Stanway Quarry by 31 Oct 2026	Granted permission	2,950,000
Cobbs Farm, Goldhanger	Sand and Gravel 589396 208459	Retrospective application for area extension	Granted permission	>1,000
Permitted reserves = 5,951,000				

MPA Hertfordshire				
Site Name	Mineral	Description	Decision	Tonnage
2014				
Thorley Hall Farm	Sand and Gravel 54882 21812	Extraction and removal of sand, gravel & soil to enable construction of a 44M gallon agricultural reservoir for farm irrigation purposes to include the temporary construction of 3m high bunds & temporary internal road & ancillary buildings & weighbridge	Granted Permission	500,000
Thorley Hall Farm	Sand and Gravel 54882 21812	Application for engineering works to construct an underground pipe from Brookside Business Park to supply water to a proposed agricultural reservoir (3/1304-13) to include headwall, pump chamber, ancillary valve compartment & GRP kiosk	Granted Permission	N/A
Pynesfield Maple Cross	Sand and Gravel 50328 19044	Mineral extraction, processing & importation of sand and gravel and reclamation materials (from Denham Park Farm) for restoration to agriculture & a small wetland area & new vehicular access	Refused	350-400,000

Anstey	Chalk 53934 23302	Variation of Cond 1 of Permission 3/1182-00 to extend period for winning and working of chalk to 31 Dec 2018	Granted Permission	N/A
Water Hall (Broad Green)	Sand and Gravel 52982 20979	Extension of workings to allow mineral extraction & infilling with naturally occurring material derived from the water Hall complex & restoration to agriculture including internal road and ancillary activities	Refused	450,000
Waterhall (Bunkers Hill)	Sand and Gravel 52982 20979	Variation of Cond 2 (Timescales) of Permission 3/1311-08 to extend the time limit for completion of restoration & infilling of Bunkers Hill Quarry until 31 Dec 2017	Refused	N/A
Waterhall (Southfield Wood)	Sand and Gravel 52982 20979	Variation of Conds 4, 25 & 54 (Timescales) of Permission 3/1310-09 to extend the time limit for completion of restoration of Waterhall, Southfield Wood & Bunkers Hill Quarries	Granted Permission	N/A
Permitted reserves = 500,000				
2015				

Waterhall (Bunkers Hill)	Sand and Gravel 52982 20979	Variation of Cond 71 (Pre-Settlement Contours) to regularise the tipped contours & and to provide details on landscaping, restoration & afteruse to reflect the new contours & to discharge Cond 73	Refused	N/A
Rickneys	Sand and Gravel 53225 21552	Variation of Cond 2 of Permission 3/0629-06 to vary the date of commencement to be no later than 8 yrs from date of original permission i.e. up to until 23 Dec 2017 for sand and gravel extraction	Undetermined	N/A
Hatfield	Sand and Gravel 51891 20843	Application for the restoration to conservation afteruses through the importation & final disposal of engineering materials comprising inert waste & soils . the use of part of the site for ongoing silt operations & subsequent restoration	Undetermined	N/A
Panshanger	Sand and Gravel 52918 21271	Importation of inert restoration materials via a new access off Panshangar Lane to restore Phases F & H	Undetermined	N/A

Tyttenhanger	Sand and Gravel 51920 20560	Variation of Cond 33 of Permission 3/01353-06 to increase permitted vehicle movements from 210 (105 in, 105 out) on weekdays & 106 on Saturdays to 380 on weekdays and 160 on Saturdays	Undetermined	N/A
Pynesfield Maple Cross	Sand and Gravel 50328 19044	Mineral extraction, processing & importation of sand and gravel and reclamation materials (from Denham Park Farm) for restoration to agriculture & a small wetland area	Undetermined	350-400,000
Permitted reserves = Nil				

MPA Norfolk				
Site Name	Mineral	Description	Decision	Tonnage
2014				
Coxford Abbey Quarry	Sand and gravel 582671 331043	Extension to existing quarry	Granted Permission	1,560,000
East Beckham Quarry	Sand and gravel 615442 340753	New mineral extraction	Granted Permission	1,600,000
Bittering Quarry	Sand and gravel 593648 317201	Revision to working scheme of existing quarry	Granted Permission	200,000
East of Mill Drove	Sand (construction) 567902 315045	Revision to working scheme of existing quarry	Granted Permission	13,000
Wymondham Quarry	Sand and Gravel 613648 300315	New mineral extraction	Granted Permission	600,000
Permitted reserves = 3,973,000				
2015				
East Bilney Quarry	Sand and gravel 596413 318403	Extension to quarry with installation of ground conveyor	Granted Permission	680,000
Watlington Quarry	Sand and gravel 562229 311974	Extension to quarry with installation of ground conveyor	Granted Permission	335,000

Norton Subcourse Quarry	Sand and gravel 640096 299419	Extension to quarry	Granted Permission	2,370,000
Permitted reserves = 3,385,000				

MPA Suffolk				
Site Name	Mineral	Description	Decision	Tonnage
2014				
Shrubland Quarry	Sand and gravel TM1185 3663	Extension to quarry	Granted Permission	500,000
Permitted reserves = 500,000				
2015				
Flixton Quarry	Sand and gravel TM 29613 85322	Extension to quarry	Granted Permission	856,000
Permitted reserves = 856,000				

Appendix 7: Permitted Aggregate Recycling Sites 2014 & 2015

Aggregate recycling sites in Bedford, Central Bedfordshire & Luton		
Site	Grid Ref	Operator
Active sites		
Land to the North of Barford Rd, Blunham	TL 13948 51576	Acorn Transport & Plant Hire
North End Farm, Bletsoe	TL 02615 59602	C Jackson & Sons
Cow Close	TL 19221 43428	FD O'Dell and Sons Ltd
Goregong Farm, Podington	494600 262100	CAJ Resources Ltd
Unit 16, Harmill IE, Grovebury Rd, Leighton Buzzard	SP 92251 24022	Buz Recycling
Octagon Farm, Cople, Willington	TL 09721 50296	Hope Construction Materials
Old Sand Quarry, Haynes West End	507050 240505	S C Bradshaw Haulage
Heron's Farm	TL 06271 18696	Mr G Sayers
Whitsundoles Quarry	491945 239970	Smith Construction
Cainhoe Quarry, Clophill	TL 10306 37755	Thomas Bros Exc Ltd
Land adj to A507, Clophill	TL 10288 37734	Winton Haulage Ltd
Goosey Lodge IE, Wymington	496200, 263930	Wykes Engineering

Aggregate recycling sites in Cambridgeshire and Peterborough		
Active sites	Grid Ref	Operator
Buckden Waste Recycling & Composting Facility, Bucken	520500 268900	Anti-Waste Ltd
Histon Road, Cottenham	544307 265742	Cottenham Skips
Middle Watch, Swavesey	536080 269260	Dawson Plant Hire
Dane Hill Rd, Newmarket	568700 286400	D Haird and Co
Waterbeach Recycling Facility	548300 266700	Frimstone
Cambridge Transfer Station	547100 261800	Mick George Ltd
County Highways Depot	548300 247300	Cambridgeshire County Council
Saxon Brickworks, Whittlesey	525900 297000	TAG Industries Ltd
Wisbeach Waste Transfer Station	545500 307800	Frimstone
Chapsmith Services Recycling Centre, Bluntisham, St Ives	534500 274900	Chapsmith Services Ltd
First Furlong Drove, Chatteris	538162 285586	Malcolm Mandley
Plantation Farm, Kennett, Cambs	568281 268710	D Haird & Co Ltd
Brittania Way, Wisbeach	546000 308100	Sherwood Park Ltd
Worsted Lodge, Babraham, Cambridge	552747 251517	Dockerill (Plant Hire) Ltd
Unit 2 Vicarage Farm Road*		Bourne Skip Hire & Recycling
Meadow Lane, St Ives	532170 270750	Mick George Ltd
Soil Washing Plant, Block Fen, Mepal	542835 283192	Mick George Ltd
National Track Recycling	541200 298800	Network Rail Ltd

Centre, Whitemoor Rail Yard, March		
Eldernell Lane, Coates	531800 298000	PJ Thory
Dogsthorpe EMR, Peterborough	520287 302329	Mick George Ltd
Woodhatch Farm, Ellington	518380 271780	Mick George Ltd
Inactive sites		
Dogsthorpe Landfill		Apex

*Unknown if active.

Note: Cambs CC source full data for aggregate recycling centres from EA Waste Interrogator and data for 2015 not available at the time of the survey.

Aggregate recycling sites in Essex, Thurrock Council and Southend-on-Sea Borough Council		
Site	Grid Ref	Operator
Plot 3 Bellcroft, Witham	58244 21533	A1 Demolition
Martells Quarry, Ardleigh	60516 22808	Aggregate Industries
Belsteads Farm, Broomfield	57182 21119	Aquila Chelmsford Ltd
The Works, West Hanningfield	57055 20064	C A Blackwell Ltd
Pond Hall Farm, Wix	61503 22968	Carlson Vehicle Transfer Ltd
Widdington Pit, Widdington	55274 23102	Carr & Bircher Ltd
25/26 Childerditch Industrial Park, Brentwood	56068 18963	CLC Construction
Marlow, Epping	54710 20486	D Evans & Sons
Carters Haulage Yard, Brightlingsea	60854 21810	Eastern Waste Disposal Ltd
Loppingdales, Gaunts End, Elsenham	55518 22547	E Corr Plant Hire
Lane Farm, Wix	61791 22915	Essex Recycling Ltd
Unit 1 Rawreth Industrial Estate, Rayleigh	57957 19227	Franklin Hire
Archers Fields, Basildon	57365 19029	GBN
Tye Green	57770 22103	GBN
Land adjacent to Taylors Farm, Takeley	55379 22134	GE & AF Silvester Ltd
Quayside Industrial Park, Maldon	58572 20763	Green Recycling Ltd
1-3 Edinburgh Place, Harlow	54618 21184	Hill Demolition & Skip Hire
Devereaux Farm, Kirby le Soken	62322 22199	J&F Eagle
Roach Valley Works, Rochford	58807 18992	JKS Construction Ltd
Harlow Mill, Old Harlow	54714 21228	Tarmac Ltd
Wivenhoe Quarry, Colchester	60166 22205	Tarmac Ltd
Bulls Lodge Quarry, Boreham	57435 21059	Mid Essex Gravels (Hanson)
Armigers Farm, Thaxted	55949 22920	Ronald B Haigh & Co Ltd
Highwood Quarry, Little Easton	55993 22270	Sewells Reservoir Construction Ltd

The Lilac Site, Basildon	57444 19085	Severnside Recycling
Devereaux Farm, Kirby le Soken	62321 22191	Silverton Aggregates
Haven Quay, Colchester	60225 22337	Silverton Aggregates
Colchester Quarry, Stanway	59514 22245	Tarmac Ltd (Cory Environmental Ltd)
Elsenham Quarry, Elsenham	55441 22662	Viridor

Aggregate recycling sites in Hertfordshire		
Active sites	Grid Ref	Operator
Anstey Quarry	53934 23302	The Anstey Quarry Co. Ltd
Birchall Lane, Cole Green	52703 21148	Eco Aggregates Ltd
Burnside	52610 21036	BP Mitchell & Peter Brothers Ltd
Cavendish Road Depot	53701 20562	Caswell Environmental Services Ltd
Codicote Quarry	52135 21729	The Codicote Quarry Company Ltd
Harper Lane Rail Loop	51598 20159	Tarmac Ltd
Harper Lodge Farm	51595 20129	Ground Waste Recycling Ltd
5 Hunting Gate, Hitchin	51944 23120	Winters Haulage Ltd
Pole Hole*	54528 21228	Frank Lyons Ltd
Waverly Nursery	53701 20562	H Dent & Sons
Inactive sites		
Jacks Hill, Graveley	52237 22914	Brycelands Removals Ltd
Land adjacent to B197, north of Graveley	52342 22920	Envirowaste (Inc) Ltd/ Stevenage Skips
* For final restoration of the site only.		

Aggregate recycling sites in Norfolk		
Site	Grid Ref	Operator
Aylsham Plant Hire Ltd		Aylsham
Stanfield	5946,3203	East Anglian Stone Ltd
Crimplesham	5667,3036	Frimstone Ltd
Feltwell	5740,2920	Frimstone Ltd
Carbrooke	5950,3013	Frimstone Ltd
Buxton	6243,3214	Frimstone Ltd
Snettisham	5684,3349	Frimstone Ltd
Middleton	5680,3153	Middleton Aggregates Ltd
Beetley		Middleton Aggregates Ltd
Ketteringham	6170,3020	Middleton Aggregates Ltd
Shropham	6003,2940	RJ Holbrook
Beeston Regis	6469,3411	Carter Concrete
Breckles	5947,2948	R Childerhouse
Letheringsett	6054,3415	Glaven Pits Ltd
Morningthorpe		Richardson Recycling Ltd
Melton Constable	6045,3328	Morrissey Builders
Heywood		R & C Bettinson
Bergh Apton	6308,2999	T Farrow Construction
Great Yarmouth		EE Green & Son
West Caizer		Highways Contractors

Coxford Abbey Quarry, East Rudham		Longwater
Aylmerton		Mr Rounce
Costessey		R G Carter

Aggregate recycling sites in Suffolk		
Active sites	Grid Ref	Operator
Barham, Broomfield	611890 251350	Lafarge Aggregates Ltd
Bentley, Folly Farm	612250 236300	Shotley Holdings Ltd
Cavenham, Marstons Pit	575890 271600	Middleton Aggregates Ltd
Chilton Airfield	589890 271600	T & K Weavers Ltd
Coddenham, Shrubland Park	611980 253670	Brett Aggregates Ltd
Culford, Balloon Barn Farm	584130 272060	Culford Waste Ltd
Drinkstone, Ticehurst Farm	595730 262730	Ticehurst Gravels Ltd
Ellough, Benacre Road WTS	644050 288510	V C Cooke Ltd
Ellough, Anson Way WTS	645169 288656	B&B Skips Ltd
Eye, Airfield Ind. Est. WTS	613566 275421	Anglian Skips Ltd
Flixton, Flixton Quarry	629670 286380	Cemex UK Materials Ltd
Gazeley Railhead	571870 267110	Lafarge Aggregates Ltd
Gisleham, Brickworks	652480 288370	E E Green & Sons Ltd
Great Blakenham, Masons WTS	611792 250079	Claydon Skips Limited
Ingham, The Folly	685639 271463	TJ & WM Cardy Ltd
Little Bealings, Sinks Pit	622900 246540	Tippers R Us
Holywell Row, Wildmere Lane	570617 278157	A & S Topsoils Ltd
Nayland, Harpers Hill Farm WTS	596324 234915	TD & AM Bugg Ltd
Sproughton, Valley Farm Scrapyard	611625 243218	SBS Spares Ltd / Ipswich Borough Council / Sutton Services Ltd
Waldringfield, Sheepdrift Farm	625799 244768	Brett Aggregates Ltd
Walsham-le-Willows, Inert Waste Recycling	599384 272104	R & D Construction Ltd
Worlington, Bay Farm Quarry	569375 271665	Frimstone Ltd

Appendix 8: Permitted wharfs and aggregate rail depots 2014 & 2015

Bedford, Central Bedfordshire & Luton	Leagrave Road Aggregate Railhead, Leagrave Road, Luton	TL 074229	Tarmac
	Limbury Sidings, Aggregate Rail depot, Luton	TL 097215	Hope Construction
	Elstow Aggregate Rail depot, Bedford	504246 245723	Tarmac
	Stewartby Aggregate Rail Depot	TL 01252 42750	Network Rail (rail ballast)
Cambridgeshire and Peterborough	Chesterton Sidings, Cambridge	547560E 261090N	Tarmac (Crushed Rock)
	Chesterton Sidings, Cambridge	547560E 261090N	Frimstone (Crushed Rock)
	Bourges Boulevard Rail Sidings / Peterborough Rail Depot	518911E 298280N	Cemex (Crushed Rock)
	Queen Adelaide, Ely	556240E 281169N	Cemex (Crushed Rock)
	Whitemoor, March	541420E 298930N	Network Rail (Rail ballast)
Essex, Thurrock Council and Southend-on-Sea Borough Council	Harlow Rail Depot	54714E 21228N	Aggregate Industries UK Ltd
	Purfleet Stone Terminal	55662E 17718N	Cemex
	Chelmsford Rail Sidings	5713E 2075N	Tarmac Ltd
	Chelmsford Rail Depot		Aggregate Industries UK Ltd
	Harlow Rail Sidings	54714E 21228N	Tarmac Ltd
	Marks Tey Rail Depot	5918E 2241N	Tarmac Ltd
	Purfleet Rail Depot, Jurgens Road		Aggregate Industries UK Ltd
	Purfleet Wharf	55710E 17704N	Cemex (Inactive)
	London Gateway Berth 7, DP World		Aggregate Industries UK Ltd
	Thurrock Marine Terminal	55741E 17688N	Tarmac Ltd
	Tilbury Docks	56340E 17607N	Stema Shipping Ltd
	Ballast Quay, Fingringhoe	5044E 2211N	JJ Prior Ltd
	Parkeston Quay, Harwich	62350E 23250N	Harwich International Port Ltd (Inactive)
Hertfordshire	Harper Lane Rail Loop	51598E 20159N	Tarmac Ltd
	Hitchin Rail Depot	51960E 22960N	Cemex UK (Inactive)
	Langley Sidings Rail Depot	52398E 22289N	Tarmac Ltd
	Orphanage Road Rail Depot	51106E 19766N	London Concrete

	Rye House Rail Depot	53894E 20919N	Tarmac Ltd
Norfolk	Trowse Raihead	624431E 307155N	Lafarge Tarmac
	Palgrave Wharf	652415E 306347N	
Suffolk	Barham Railhead	611890 251350	LafargeTarmac
	Gazeley Railhead	571870 267110	LafargeTarmac
	Ipswich, Cliff Quay	617080 242080	Lafarge Tarmac
	Ipswich, West Bank	616720 243100	Brett Aggregates
	Bury Railhead	585150 265100	Lafarge Tarmac
	North Quay, Lowestoft (inactive)	654480 292730	Associated British Ports
	Hamilton Dock, Lowestoft (inactive)	655310 292980	Associated British Ports

Notes: Wharves and aggregate rail depots listed above relate collectively to 2014 & 2015 unless otherwise stated. All sites are active unless otherwise stated.

Appendix 9: Key Milestones for Minerals LDD (and SPDs) in the East of England

MPA	LDD or SPD Title	Consultation	Submission to Secretary of State	Examination in Public	Adoption
Bedford, Central Bedfordshire and Luton www.centralbedfordshire.gov.uk/planning/minerals-and-waste/development-framework.aspx	Minerals and Waste Local Plan: Strategic Sites and Policies LDD	2006 -2010	10 August 2012	December 2012-January 2013. July 2013	January 2014
Cambridgeshire and Peterborough www.cambridgeshire.gov.uk/environment/planning/mineralswasteframework/mineralsandwastedevelopmentscheme	Minerals and Waste Core Strategy	Completed	Completed	Completed	July 2011
	Minerals and Waste Site Specific Proposals Plan	Completed	Completed	Completed	22 nd February 2012
	Block Fen/Langwood Fen Master Plan (SPD)				July 2011
	The Location & Design of Waste Management Facilities SPD	Completed	Completed	Completed	19 th July 2011
	RECAP Waste Management Design Guide SPD	Completed	Completed	Completed	22 nd February 2012
Essex www.essex.gov.uk/mipexamination	Essex Replacement Minerals Local Plan.	November 2012	July 2013	-	July 2014

MPA	LDD or SPD Title	Consultation	Submission to Secretary of State	Examination in Public	Adoption
Southend-on-Sea	Southend-on-Sea Core Strategy			-	July 2007
Thurrock	Core Strategy and Policies for Management of Development	July 2006 Feb 2008	April 2010	March 2011	December 2011
	Core Strategy and Policies for Management of Development. Focused Review: Consistency with NPPF	October 2012	August 2013	April 2014	
	Thurrock Local Plan	Reg 18 – February 2016 (Issues & Options) Stage 1 October 2016 (Issues & Options) Stage 2 October 2017 Draft Local Plan	Reg 19 – October 2018 Publication Draft of the Local Plan)	March 2019	October 2020
Hertfordshire http://www.hertsdirect.org/docs/pdf/m/mwdst	Minerals Local Plan	August – October 2015 (Issues & Options) Preferred Approach September –October 2016	August 2017	September –November 2017	July 2018

MPA	LDD or SPD Title	Consultation	Submission to Secretary of State	Examination in Public	Adoption
Norfolk http://www.norfolk.gov.uk/Environment/Planning/Mineral_and_waste_planning/Minerals_and_waste_development_framework/Development_Scheme/index.htm	Norfolk Core Strategy & Minerals and Waste Development Management Policies DPD	May-June 2007 (Issues & Options) February-March 2008 (Preferred Approach)	February 2011	May-June 2011	September 2011
	Minerals Site Specific Allocations LDD	February – March 2008 (Issues & Options) October-December 2009 & July-August 2011 (Preferred Approach)	10 th December 2012	26 March - 28 April 2013	October 2013
	Single Issue Silica Sand Review of the Minerals SSA DPD	March-April 2015 (Issues & Options) November – December 2015 (Preferred Approach)	September 2016	November 2016	April 2017
Suffolk www.suffolk.gov.uk/environment-and-transport/planning-and-buildings/minerals-and-waste-development-framework/	Minerals Core Strategy	February 2006 (Issues and Options) April 2007 (Preferred Options)	October 2007	-	September 2008
	Minerals Site Specific Allocation	June 2006 (Issues and Options) October 2007 (Preferred Options)	August 2008	-	September 2009