

Waste Development Document

Preferred Approach

November 2011



Appendix A: Alternatives to the WDD Preferred Approaches

Appendix B: Addressing the WDD: Issues and Options

Appendix C: Preferred Approach Safeguarded Sites

Working in partnership

WDD PREFERRED APPROACH APPENDICES (A-C)

APPENDIX A: SUMMARY OF REASONABLE ALTERNATIVES TO WDD PREFERRED APPROACHES	b
APPENDIX B: HOW WDD PREFERRED APPROACHES ADDRESS THE WDD: ISSUES AND OPTIONS	r
APPENDIX C: STRATEGIC WASTE MANAGEMENT FACILITIES AND SITES TO BE SAFEGUARDED THROUGH PREFERRED APPROACH 4	u

APPENDIX A: SUMMARY OF REASONABLE ALTERNATIVES TO WDD PREFERRED APPROACHES

This appendix describes how the WDD Preferred Approaches have been developed from the Issues and Options consultation and sets out alternatives that have been discounted and why. At the Issues and Options stage, distinct alternative options were set out for some of the issues; however for other issues the consultation questions simply asked for comment on suggested policy criteria. Where this was the case, rather than selecting one option as the Preferred Approach and rejecting others, the consultation responses received were used to inform the development of the option into a more detailed Preferred Approach. However, other factors also influenced the development of the Preferred Approaches, including the outcomes of the Issues and Options consultation workshops that were held in 2010 and input from Essex and Southend Councils and, and so the Preferred Approaches do not always directly correlate with an option put forward at the Issues and Options stage. In each case, this appendix demonstrates why the options that are reflected in the Preferred Approaches were chosen over other potential approaches, or where the Preferred Approach represents a departure from any of the earlier options, why this was.

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
Vision and strategic Objectives	Issue 4: Proposed Vision and Strategic Objectives (Question 8)	<p>The Issues and Options consultation put forward the suggested Vision and Strategic Objectives and requested comments on these, but did not provide distinct alternative options.</p> <p>Of the 27 responses received in relation to question 8, 20 gave broad support to the Vision and Strategic Objectives and where detailed comments were received, these were taken into consideration as the Preferred Approaches for the Vision and Strategic Objectives were drafted.</p>
Key Capacity Issues	<p>Issue 2: Waste Arisings Projections (Questions 2, 3 and 4)</p> <p>Issue 3: The Capacity Gap (Questions 5 and 6)</p>	Set out in the 2011 Capacity Gap Report.

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
PA 1: Waste Hierarchy	The Waste Hierarchy itself was not presented as an issue in the Issues and Options document, however, it was described as part of the policy context for preparing a WDD and its importance is referred to in many of the consultation responses on other Issues within the document.	The Waste Hierarchy (as detailed in this Preferred Approach) is set out in the EU Waste Framework Directive and translated into national policy through Planning Policy Statement 10 (2011) and WPAs are required by the 2011 Waste Regulations to promote it in planning decisions. As such, there are no alternatives to this Preferred Approach that were considered and discounted.
PA 2: Waste Prevention and Re-use	Issue 1: Waste Prevention and Re-Use (Question 1)	<p>Question 1 in the Issues and Options Consultation did not put forward policy options and alternatives; rather it asked for suggestions regarding what more the WDD could do to promote and enable the prevention and re-use of waste. As such, there were no proposed options which have been discounted.</p> <p>There were mixed responses from consultees - some felt that as this is the top of the waste hierarchy, it should be given more prominence in the WDD and come first in the strategic objectives and order of the document. Others acknowledged that the WDD is unable to influence household, consumer and business behaviour in terms of buying less and a reduction in the amount of packaging etc. but suggested that the WDD should refer to all the other initiatives being undertaken by other teams within the Councils. Some consultees also recommended that site waste management plans be required for new waste facilities.</p> <p>Issue 1 was not subject to SA as it was considered to be primarily concerned with the evidence base used to inform the WDD and beyond the scope of the SA/SEA.</p>

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
PA 3: Overall Spatial Strategy	Issue 5: How to Define the Overall Spatial Strategy (Question 9)	<p>The Preferred Approach therefore seeks to reflect the consultation comments received and to ensure that waste minimisation is adequately addressed early on in the WDD.</p> <p>At the Issues and Options stage, a number of alternative options for defining the overall spatial strategy were suggested in Question 9, including:</p> <ul style="list-style-type: none"> • A - Expansion and co-location with existing facilities; • B - Existing key urban centres of population and growth; • C - De-centralised approach; • D - Areas with limited existing capacity; or • E - A hybrid option. <p>A hybrid approach has been taken forward as the Preferred Approach as this option was favoured by consultees and allows flexibility for the waste industry. The three sites with planning permission for Integrated Waste Management Facilities at Stanway (Colchester), Rivenhall (Braintree) and Courtauld Road (Basildon) have been allocated for safeguarding as they have been shown to be suitable sites for waste management through gaining planning permission. Once developed, these sites will make a significant contribution to meeting the capacity gap for municipal, commercial and industrial waste recycling and treatment. Two of the facilities are close to the key urban centres and the third is close to one of the smaller centres although centrally located. Therefore, they should be protected from other non-compatible developments by safeguarding these sites for waste management.</p> <p>In the Sustainability Appraisal, all of the options for this issue had mixed scores for the majority of objectives, but Options A and B were considered to have positive or significantly positive effects on three objectives: 9 - sustainable management of waste, 10 - promoting more sustainable transport of waste and 13 - maximising opportunities for economic development including jobs from waste activities. Option C also scored significantly positive for SA objectives 9 and 13, while Option D was considered to have negative or significant</p>

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
PA 4: Safeguarding and Waste Consultation Zones	<p>Issue 11: Safeguarding Existing and Allocated Waste Management Sites (Questions 22 and 23)</p> <p>Issue 18: Waste Consultation Zones (Question 30)</p>	<p>negative effects on SA objectives 9, 10 and 13 as well as 6 – impacts on landscape and townscape and 7 – protecting air quality. The hybrid option was not individually subject to SA as it would present a combination of the effects of the other options, depending on the nature of the hybrid option e.g. which elements of the other options were included.</p> <p>This Preferred Approach encompasses two of the issues consulted upon at Issues and Options stage. Options for safeguarding sites were put forward under Option 11, and included two suggested policy options – one that would safeguard existing waste facilities only where they are consistent with WDD policies have permanent planning permission, and the other which would safeguard sites only where they are consistent with WDD policies and provide for a substantial proportion of existing waste management capacity (using a defined threshold). Various more specific options for safeguarding options were then put forward under question 23, and included:</p> <ul style="list-style-type: none"> • A - Existing permanent permission, consistent with WDD policies; • B - Existing permanent permissions and waste plan site allocations with an area/capacity or strategic importance exceeding 3ha; • C - Existing permanent permissions and waste plan site allocations with an area/capacity or strategic importance over 100,000 tpa; • D - Existing permanent permissions and waste plan site allocations of strategic importance defined in Chapter 5 of the Issues and Options document; or • E - Other. <p>Of the 22 consultation responses that expressed either agreement or disagreement, 18 specifically agreed with the principle of safeguarding existing waste sites and facilities to ensure no net loss in the existing waste management capacity. Of the four who disagreed, this was generally on the basis that sites should be in conformity with the WDD, and where sites are misplaced or are causing problems, the development of the WDD should be a</p>

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
		<p>chance to improve the situation rather than safeguarding all existing facilities as a blanket policy. Of the 22 respondents who expressed preference for one of the safeguarding options A-E, 11 chose option E (other).</p> <p>The Sustainability Appraisal found that option 1 (safeguarding existing permanent permissions that are consistent with WDD policies and have permanent planning permission) is likely to have a significant positive effect on the sustainable management of waste as existing facilities would be subject to the policy requirements and locational criteria of the WDD to ensure sustainable management of waste in the plan area. Option 2 (safeguarding existing permanent permissions and waste plan site allocations which provide for a substantial proportion of existing waste management capacity) is likely to have a significant positive effect on the sustainable management of waste through effectively meeting the capacity gap and managing waste on the most efficient scale, removing the need for additional large-scale facilities elsewhere in the plan area.</p> <p>As such, the Preferred Approach reflects a hybrid of the options, specifying that the WPAs will seek to safeguard a number of strategic sites which are all licensed, operating waste facilities or have planning permission or are allocated in the WDD. No size threshold has been determined within which sites will be safeguarded.</p> <p>This Preferred Approach also addresses Waste Consultation Zones (considered under Issue 18 at Issues and Options stage). Five options for waste consultation zones were put forward:</p> <ul style="list-style-type: none"> • A – Around waste facilities that are considered to be central to the delivery of the WDD i.e. strategic facilities; • B – Certain types of waste facility that have greater potential for adverse effects on people and the environment; • C – Through LDFs, to take account of local circumstances; • D – Around all waste management facilities; or • E – Other.

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
		<p>30 out of the 36 respondents in total expressed a preference for one of the options for Waste Consultation Zones. The majority (16) selected Option 4, which the Preferred Approach reflects. Comments supporting the choice of Option 4 were mostly in response to a view that all facilities can potentially have an impact on their surroundings, therefore consideration should be given to the protection of all communities and properties (despite the purpose of Waste Consultation Zones being to safeguard the continued operation of the waste facility, not to protect surrounding communities and properties). There was also some support (from 6 respondents) for an approach that would allow for more flexibility, particularly requiring LPAs to designate Waste Consultation Zones through their LDFs, taking local circumstances into account (Option 3).</p> <p>The SA concluded that Option 4 (which has been reflected in the Preferred Approach) is likely to have significant positive impacts on the sustainable management of waste, and further positive effects in relation to energy efficiency, the sustainable transport of waste and protecting human health and wellbeing.</p>
PA 5: Strategic Site Allocations for Recycling and Recovery	Strategic sites were not identified in the Issues and Options consultation document.	Strategic sites were not identified in the Issues and Options Paper, so were not consulted on at that stage. However, the Issues and Options document did include a Call for Sites (Issue 27) and as a result 33 potential sites were put forward by landowners, developers and the waste industry. These were subject to a detailed site assessment process which resulted in the selection of some and the rejection of others. The methodology and outcomes of this process outlined in Chapter 8 of the WDD and set out in detail in Appendix D & E.
PA 6: General Locational criteria for Recycling and Recovery Facilities	Issue 6: Locational Criteria for Recycling and Composting Facilities (Questions 11, 12, 13 and 14)	Covered by PAs 7-11.

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
<p>PA 7: Locational criteria for Materials Recovery Facilities and Waste Transfer Sites</p>	<p>Issue 6: Locational Criteria for Recycling and Composting Facilities (Question 11 and 12)</p>	<p>At the Issues and Options stage, a range of location options were put forward for small and large-scale waste transfer stations (enclosed and open air) and materials recycling facilities (both enclosed and open air). Consultation responses demonstrated considerable spread in relation to the locational criteria for these types of facilities, with the most popular being:</p> <p><u>Waste Transfer Stations (enclosed)</u></p> <p>Large-scale - industrial estates close to waste arisings where they are used for general industry, storage and distribution.</p> <p>Small-scale - co-location with existing waste facilities.</p> <p><u>Waste Transfer Stations (open air)</u></p> <p>Both large and small-scale - co-location with existing waste facilities.</p> <p><u>Materials Recycling Facilities (enclosed)</u></p> <p>Both large and small-scale - industrial estates used for general industry, storage and distribution.</p> <p><u>Materials Recycling Facilities (open air)</u></p> <p>Large-scale - industrial estates close to waste arisings and used for general industry, storage and distribution.</p> <p>Small-scale - even split between industrial estates close to waste arisings and used for general industry, storage and distribution and co-location with existing waste facilities</p>

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
		<p>The Sustainability Appraisal identified largely similar effects for the different location options for each type and scale of facility, although the most significant positive effects were identified in relation to industrial estates close to waste arisings where they are used for general industry, storage and distribution and co-location with existing waste facilities for waste transfer stations (both enclosed and open air). Slightly more negative effects were identified in relation to brownfield sites in rural areas and redundant farm buildings for materials recycling facilities (both enclosed and open air).</p> <p>The Preferred Approach seeks to reflect the above, recognising that there was no one clearly preferable location option for these types of facilities. Some locations received low support from consultees, generated negative scores in the SA and are considered not suitable to easily accommodate those facilities without potentially impacting neighbouring uses and environmental features of those locations and these have been omitted from the Preferred Approach.</p>
PA 8: Locational criteria for Inert Waste Recycling Facilities	Issue 6: Locational Criteria for Recycling and Composting Facilities (Question 14)	<p>At the Issues and Options stage, a range of location options were put forward for C&D recycling facilities. Consultation responses demonstrated spread in relation to the locational criteria for these types of facilities, with the most popular being on development sites on a temporary basis followed closely by co-location with existing waste facilities.</p> <p>The Sustainability Appraisal found that the most significant positive effects are associated with facilities on development sites on a temporary basis.</p>
PA 9: Locational criteria for Metal Recycling and Vehicle Dismantling Facilities	Issue 6: Locational Criteria for Recycling and Composting Facilities (Questions 11, 12, 13 and 14)	<p>This issue was not dealt with specifically at the Issues and Options stage; however it is comparable to Material Recycling Facilities & Waste Transfer Stations. It was considered appropriate to develop a specific Preferred Approach to deal with metal recycling and vehicle dismantling facilities, because of their distinct characteristics. Therefore no distinct options were therefore proposed at the Issues and Options stage.</p>

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
PA 10: Locational criteria for In-vessel Composting Facilities	Issue 6: Locational Criteria for Recycling and Composting Facilities (Question 13)	<p>At the Issues and Options stage, a range of location options were put forward for in-vessel composting facilities, both small and large-scale. Consultees supported most of the suggested locations for in-vessel composting facilities in the Issues and Options Paper, but some locations received lower support or generated negative scores in the SA (e.g. open countryside) and are considered not suitable to easily accommodate those facilities without potentially impacting neighbouring uses and environmental features of those locations. These have therefore been omitted from the Preferred Approach.</p> <p>The Sustainability Appraisal found that the likely effects of the different locations for in-vessel composting facilities were broadly very similar, although there are more cant positive effects associated with facilities on industrial sites used for general industry, storage and distribution.</p>
PA 11: Locational criteria for Outdoor Composting Facilities	Issue 6: Locational Criteria for Recycling and Composting Facilities (Question 12)	<p>At the Issues and Options stage, a range of location options were put forward for open windrow composting facilities, both small and large-scale. Consultees supported most of the suggested locations for open-windrow composting facilities in the Issues and Options Paper, but some locations received lower support or generated negative scores in the SA (e.g. open countryside) and are considered not suitable to easily accommodate those facilities without potentially impacting neighbouring uses and environmental features of those locations. These have therefore been omitted from the Preferred Approach.</p> <p>The Sustainability Appraisal found that the likely effects of the different locations for open windrow composting facilities were broadly very similar, although there are more cant positive effects associated with facilities on industrial sites used for general industry, storage and distribution and brownfield sites in urban areas.</p>
PA 12: Locational criteria for Waste Water Treatment Works	Issue 15: Waste Water Treatment (Question 27)	<p>At the Issues and Options stage, suggested policy criteria were put forward in relation to waste water treatment, rather than distinct alternative options being presented. Suggestions for alternative approaches were requested where respondents did not agree with the suggested policy criteria.</p>

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
		<p>Of the 19 consultees that responded, the majority (16) agreed with the suggested policy criteria and only 3 disagreed. Where they disagreed, this was generally because they sought an amendment to one or more of the criteria (and these have been incorporated in the Preferred Approach where appropriate).</p> <p>The SA found that the suggested policy criteria would not be likely to result in any significant sustainability effects, although potential minor positive effects were identified in relation to most of the SA objectives.</p>
PA 13: Locational criteria for clinical waste treatment facilities	16: Hazardous Waste	<p>Although there was not a specific issue addressing clinical waste treatment at the Issues and Options stage, it was referred to in the Hazardous Waste issue. However, a need for additional clinical waste facilities was identified through the 2011 Capacity Gap Report and so it has now been included as a distinct Preferred Approach. The main alternative to the Preferred Approach would be to continue exporting out of the county to disposal sites, as described in Chapter 3 of the WDD: Preferred Approach. However, this would conflict with certain aims of the WDD, such as improving net self-sufficiency within the Plan area. As such, a criteria-based policy approach has been preferred, as it not currently known whether there is a viable amount of clinical waste arising or whether it is more appropriate to continue exporting this type of waste.</p>
PA 14: Locational criteria for Mechanical Biological Treatment, Autoclaving and Anaerobic Digestion Facilities	Issue 7: Locational Criteria for Treatment Facilities (Questions 15, 16 and 17)	<p>At the Issues and Options stage, a range of location options were put forward for small and large-scale MBT, autoclaving and AD facilities. Consultation responses demonstrated considerable spread in relation to the locational criteria for these types of facilities, with the most popular being:</p> <p><u>Anaerobic Digestion Plant</u></p> <p>Small-scale – Industrial estates used for general industry, storage and distribution or co-location with existing waste facilities.</p> <p>Large-scale – Co-location with existing waste facilities.</p>

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
		<p><u>Mechanical and Biological Treatment</u></p> <p>Small-scale – Co-location with existing waste facilities.</p> <p>Large-scale – Industrial estates used for general industry, storage and distribution.</p> <p><u>Autoclaving</u></p> <p>Small-scale - Co-location with existing waste facilities.</p> <p>Large-scale - Industrial estates used for general industry, storage and distribution and co-location with existing waste facilities.</p> <p>The Sustainability Appraisal identified largely similar effects for the different location options for each type and scale of facility, although slightly more positive effects were identified in relation to industrial estates used for general industry, storage and distribution or co-location with existing waste facilities for all of the three types of facility.</p> <p>The Preferred Approach seeks to reflect the above, recognising that there was no one clearly preferable location option for these types of facilities. Some locations received low support from consultees, generated negative scores in the SA and are considered not suitable to easily accommodate those facilities without potentially impacting neighbouring uses and environmental features of those locations and these have been omitted from the Preferred Approach.</p>
PA 15: Locational criteria for Energy from Waste, Gasification and Pyrolysis Facilities	Issue 8: Locational Criteria for Energy Recovery Facilities	<p>At the Issues and Options stage, a range of location options were put forward for energy recovery facilities (both small and large scale), including:</p> <ul style="list-style-type: none"> • Industrial sites used for general industry, storage and distribution; • Brownfield sites in urban areas; • Brownfield sites in rural areas;

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
		<ul style="list-style-type: none"> • Redundant farm buildings; • Co-located with existing waste facilities; • Working relationship with mineral working and landfill sites; • Open countryside; or • Other <p>Consultees were asked to select the most suitable sites, and of the responses received there was considerable spread, with the most popular options being:</p> <p><u>Energy Recovery Facilities</u></p> <p>Both small and large scale: Industrial estates used for general industry, storage and distribution.</p> <p><u>Pyrolysis and Gasification</u></p> <p>Small-scale: Industrial estates for general industry, storage and distribution.</p> <p>Large-scale: Co-location with existing waste facilities and industrial estates used for general industry, storage and distribution.</p> <p>The Overview Report on the Joint WDD: Issues and Options Consultation Workshops showed that the principle public concern in relation to the location of energy recovery facilities is the potential impact of noise from lorries. The potential to use heat and power from facilities was seen as the most significant advantage of locating these facilities close to the source of arisings.</p> <p>The Sustainability Appraisal found that the likely effects of the various types of facilities are broadly similar, although a greater number of positive effects were associated with industrial estates for general industry, storage and distribution.</p>

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
		<p>The Preferred Approach that has been developed from the Issues and Options consultation has sought to reflect the above, for example endorsing energy recovery facilities in association with other waste management development, as part of district heating schemes and where co-located with other commercial and industrial users of heat and power. However, some locations received lower support or generated negative scores in the SA (e.g. open countryside) and are considered not suitable to easily accommodate those facilities without potentially impacting neighbouring uses and environmental features of those locations, so have been omitted from the Preferred Approach.</p>
PA 16: Potential Strategic Site Allocations for Inert Landfill	Strategic sites were not identified in the Issues and Options consultation document.	Strategic sites were not identified in the Issues and Options Paper, so were not consulted on at that stage. However, the Issues and Options document did include a Call for Sites (Issue 27) and as a result 33 potential sites were put forward by landowners, developers and the waste industry. These were subject to a detailed site assessment process which resulted in the selection of some and the non-selection/ rejection of others. The methodology and outcomes of this process are outlined in Chapter 8 of the WDD and set out in detail in Appendix D and E.
PA 17: Locational criteria for landraising	Issue 22: Landraising and the Use of Waste for Construction and Engineering Projects	<p>At the Issues and Options stage, suggested policy criteria were put forward for comment in relation to landraising and the use of waste for construction and engineering projects, rather than distinct alternative options being proposed. Suggestions for alternative approaches were requested where respondents did not agree with the suggested policy approach.</p> <p>Of the 23 consultees that responded, a significant majority (21) agreed with the suggested policy criteria and only 2 disagreed. Where they sought an amendment to the criteria these have been incorporated in the Preferred Approach where appropriate.</p>

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
		<p>The Sustainability Appraisal found that the suggested policy criteria would be likely to have a significant positive effect on SA objectives 1 (biodiversity and geodiversity), 4 (sustainable use of land) and 6 (landscape and townscape character). All other likely effects were either minor positive or negligible, with no negative effects associated with the policy criteria.</p>
PA 18: Locational criteria for non-hazardous landfill facilities	Issue 9: Locational Criteria for Disposal Facilities (Question 20)	<p>At the Issues and Options stage, all type of landfill sites were considered together. A range of options for landfill locations were put forward, and the consultation responses showed a very even split of opinion between the options proposed, with 15, 14 and 15 respondents showing support for Options 1 (void space within existing C&I landfill sites to accept MSW, subject to environmental considerations), 2 (void space within mineral working and landfill sites) and 3 (within extensions to existing landfill facilities) respectively. Three people selected the fourth 'other' option. However, a large proportion of the respondents selected two or three of the types of locations, while a large number of other respondents made comments but did not select any of the options.</p>
PA 19: Locational criteria for hazardous landfill facilities	Issue 9: Locational Criteria for Disposal Facilities (Question 20)	<p>It was considered appropriate to develop separate Preferred Approaches for hazardous and non-hazardous landfill, to reflect the fact that different types of landfill facilities will be appropriate in different locations.</p>
PA 20: Locational criteria for intermediate, low and very low level radioactive wastes	Issue 17: Low Level Radioactive Waste (Question 29)	<p>At the Issues and Options stage, policy criteria were proposed in relation to radioactive waste, rather than distinct alternatives being put forward. The suggested approach involved refusing planning permission for nuclear or radioactive waste disposal (except low level clinical waste) and the Councils seeking to ensure that nuclear wastes continue to be managed at national facilities. It also required the potential of existing non-hazardous landfill sites to accommodate disposal of certain LLW and VLLW to be explored. Although no distinct alternatives were put forward, suggestions for alternative approaches were requested where respondents did not agree with the suggested policy approach.</p>

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
PA 21: Mitigating and Adapting to Climate Change	Issue 12: Mitigating and Adapting to Climate Change (Question 24)	<p>The consultation responses showed a fairly even split of opinion between agreeing that radioactive wastes should be disposed of at Bradwell Power Station, or within the Plan area, and disagreeing with this approach. However, there is an identified requirement to plan for small quantities of radioactive waste from decommissioning the current nuclear power station and other sources such as hospitals, with a potential requirement for larger quantities of waste generated from the possible development of a new nuclear power facility within the plan period. As such, the Preferred Approach reflects the policy criteria from the Issues and Options stage that consultees broadly agreed with, as well as this identified need.</p> <p>The SA found that the suggested policy criteria would not be likely to have significant effects on any of the SA objectives, although a number of minor positive and minor negative effects were highlighted.</p>
		<p>At the Issues and Options stage, suggested policy criteria were proposed in relation to mitigating and adapting to climate change, rather than distinct alternatives being suggested. Suggestions for alternative approaches were requested where respondents did not agree fully with the suggested policy approach.</p> <p>Of the 29 respondents who selected either 'yes' or 'no', 23 broadly agreed with the suggested policy approach, and this is reflected in the Preferred Approach.</p> <p>The SA found that significant positive effects on SA objective 8 (energy efficiency) are likely, as the policy criteria would encourage the efficient use of energy and energy recovery and utilisation of energy from waste where appropriate and feasible. Further significant positive effects would also be likely in relation to SA objective 9 (sustainable management of waste) where proposals demonstrate the need for the type of waste management process in relation to the waste hierarchy and the waste management capacity gap in the Plan area.</p>

Preferred Approach	Issue/Question	Alternatives Discounted and Reasons Why
PA 22: Transportation of waste	Issue 13: Highway and Transportation	<p>At the Issues and Options stage, suggested policy criteria were proposed in relation to highways and transportation, rather than distinct alternatives being suggested. Suggestions for alternative approaches were requested where respondents did not agree fully with the suggested policy approach.</p> <p>Of the 29 respondents that selected either 'yes' or 'no', 27 broadly agreed with the suggested policy approach, and this is reflected in the Preferred Approach.</p> <p>The SA found that significant positive effects on SA objective 10 (sustainable transport of minerals and waste) are likely as the policy criteria would mean that opportunities for transporting waste by rail or water are sought in the first instance.</p>
PA 23: General Considerations for all Waste Management Development Proposals	<p>Issue 19: Health Impact Assessment (Question 31)</p> <p>Issue 20: Local Landscape and Townscape (Question 32)</p> <p>Issue 21: Local Biodiversity</p> <p>Issue 23: General Considerations for all Waste Management Development Proposals</p>	<p>At the Issues and Options stage, the different development management issues were considered separately. For each issue, a range of policy criteria were proposed and consultees were asked to comment on them, rather than setting out distinct options to be chosen or rejected. However, analysis of the consultation responses and the Annual Monitoring Report, as well as Waste Local Plan policies and input from Development Management officers indicated that rationalising policy into a single preferred approach dealing with DM issues would be most appropriate. The criteria put forward were selected with the aim of addressing all of the key issues without unnecessary repetition.</p>

APPENDIX B: HOW WDD PREFERRED APPROACHES ADDRESS THE WDD: ISSUES AND OPTIONS

Issues set out in the WDD: Issues and Options Consultation	WDD: Issues and Options Consultation Question(s)	Relevant Preferred Approach(es)
1: Waste Prevention and Re-Use	1	PA1: Waste Hierarchy (the Waste Hierarchy itself was not presented as an issue in the Issues and Options document, however, it was described as part of the policy context for preparing a WDD and its importance is referred to in many of the consultation responses on other Issues within the document. It's inclusion in the Preferred Approach document responds to national policy requirement). PA2: Waste Prevention and Re-Use
2: Waste Arisings Projections	2, 3, 4	2011 Capacity Gap Report and Chapter 3 of the WDD: Preferred Approach
3: The Capacity Gap	5, 6	2011 Capacity Gap Report and Chapter 3 of the WDD: Preferred Approach
4: Proposed Vision and Strategic Objectives	8	Vision and Strategic Objectives
5: How to Define the Overall Spatial Strategy	9	PA3: Overall Spatial Strategy
6: Locational Criteria for Recycling and Composting Facilities	11, 12, 13, 14	PA 6: General Locational criteria for Recycling and Recovery Facilities PA 7: Locational criteria for Materials Recovery Facilities and Waste Transfer Sites PA 8: Locational criteria for Inert Waste Recycling Facilities PA 9: Locational criteria for Metal Recycling and Vehicle Dismantling Facilities PA 10: Locational criteria for In-vessel Composting Facilities PA 11: Locational criteria for Outdoor Composting Facilities

Issues set out in the WDD: Issues and Options Consultation	WDD: Issues and Options Consultation Question(s)	Relevant Preferred Approach(es)
7: Locational Criteria for Treatment Facilities	15, 16, 17	PA 14: Locational criteria for Mechanical Biological Treatment, Autoclaving and Anaerobic Digestion Facilities
8: Locational Criteria for Energy Recovery Facilities	18, 19	PA 15: Locational criteria for Energy from Waste, Gasification and Pyrolysis Facilities
9: Locational Criteria for Disposal Facilities	20	PA 16: Potential Strategic Site Allocations for Inert Landfill PA 18: Locational criteria for non-hazardous landfill facilities PA 19: Locational criteria for hazardous landfill facilities
10: How to Define Strategic Sites	21	Defined in Table 4.1, safeguarded in PA 4: Safeguarding and Waste Consultation Zones and allocated in PA 5: Strategic Site Allocations for Recycling and Recovery.
11: Safeguarding Existing and Allocated Waste Management Sites	22, 23	PA4: Safeguarding and Waste Consultation Zones
12: Mitigating and Adapting to Climate Change	24	PA 21: Mitigating and Adapting to Climate Change
13: Highway and Transportation	25	PA 22: Transportation of waste
14: Opportunities for Reprocessing	26	Although not taken forward as a specific Preferred Approach, reprocessing is addressed through the Preferred Approaches for recycling and recovery.
15: Waste Water Treatment	27	PA 12: Locational criteria for Waste Water Treatment Works
16: Hazardous Waste	28	Although not taken forward as a specific Preferred Approach, hazardous waste is addressed through the Preferred Approaches for hazardous landfill (PA 19) and clinical waste (PA 13).
17: Low Level Radioactive Waste	29	PA 20: Locational criteria for intermediate, low and very low level radioactive wastes

Issues set out in the WDD: Issues and Options Consultation	WDD: Issues and Options Consultation Question(s)	Relevant Preferred Approach(es)
18: Waste Consultation Zones	30	PA4: Safeguarding and Waste Consultation Zones
19: Health Impact Assessment	31	PA 23: General Considerations for all Waste Management Development Proposals
20: Local Landscape and Townscape	32	PA 23: General Considerations for all Waste Management Development Proposals
21: Local Biodiversity	33	PA 23: General Considerations for all Waste Management Development Proposals
22: Landraise and the Use of Waste for Construction and Engineering	34	PA 17: Locational criteria for landraising
23: General Considerations for all Waste Management Development	35	PA 23: General Considerations for all Waste Management Development Proposals
24: Delivery	36, 37, 38	Chapter 9 of the WDD: Preferred Approach.
25: Monitoring	N/A	Chapter 9 of the WDD: Preferred Approach.
26: Any Other Issues	39	Addressed throughout the WDD: Preferred Approach.
27: Call for Sites	N/A	Chapter 8 of the WDD: Preferred Approach and Appendix D and E.

APPENDIX C: STRATEGIC WASTE MANAGEMENT FACILITIES AND SITES TO BE SAFEGUARDED THROUGH PREFERRED APPROACH 4

This Appendix lists all of the facilities that would be safeguarded in accordance with the assumptions presented in Table 8 of the WDD: Preferred Approach and are considered to be essential to the delivery of the WDD, within the life of their existing planning permissions. The facilities are mapped at the end of this appendix.

Proposed SAFEGUARDED Transfer Stations used by the WDA for MSW

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and planning permission, as they support delivery of the Municipal Waste Management Strategies for Essex and Southend-on-Sea.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Cordons Farm	Long Green, Ashes Road, Cressing, Braintree Essex, CM7 8DL	Hazardous Transfer Station		2,500
Chelmsford Borough Council Depot	Freighter House, Drovers Way, Boreham, Chelmsford, Essex, CM2 5PH	Hazardous Transfer Station		24,499
EWD Carters Haulage Yard	Morses Lane Ind Estate Brightlingsea Colchester Essex CO7 0SD	Non Hazardous Transfer Station	4,500	24,999
Hallsford Bridge, PW Keen	Plot 9 Hallsford Bridge Ind.Est Stondon Road Stondon Massey Ongar Essex CM5 9RB	Non Hazardous Transfer Station		24,999

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
SITA Boreham	Boreham Ind Est. Waltham Road Boreham Essex CM3 3AW	Non Hazardous Transfer Station		75,000
Chelmsford Transfer & Recycling Facility	Units 11 & 12 Boreham Ind Est. Waltham Road, Boreham, Chelmsford, Essex, CM3 3AW	Non Hazardous Transfer Station		24,499
Contact Waste	Brickfields Way TS, Yard 2 Brickfields Way Purdey's Ind Estate Rochford Essex SS4 1LX	Non Hazardous Transfer Station		24,999 74,999
Hadleigh Salvage (Recycling) Ltd	Plot 9 Stock Road Southend-On-Sea Essex SS2 5QF	Non Hazardous Transfer Station	75,000	74,999
Bob's Skips	Stephenson Road Gorse Lane Ind Est Clacton-on-Sea Essex CO15 4XA	Non Hazardous Transfer Station		24,999
Epping Forest Council Depot	Langston Road, Loughton, Essex, IG10 3UE	Non Hazardous Transfer Station		24,999
Central Cleansing Depot	Eastern Avenue Southend-On-Sea Essex SS2 5QX	Unspecified		74,999

Proposed SAFEGUARDED Clinical and Hazardous Transfer Stations

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and planning permission, as they deal with specialist types of waste

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Clinovia	Unit 7&9 Coldharbour, Pinnacles Estate Lovet Road Harlow Essex CM19 5SZ	Clinical Transfer		24,999
Personnel Hygiene Services Ltd	Unit E CTS Fulmar Way Wickford Essex SS11 8ZB	Clinical Transfer		24,999
Albany Rental Supply Ltd	15 Brook Road Brook Road Ind Est Rayleigh Essex SS6 7UT	Clinical Transfer		24,999
Bradwell Power Station	Bradwell Reactor site Bradwell-on-Sea Southminster Essex CM0 7HP	Hazardous Storage	1 storage building containing 600 3m ³ 'packages'	
Cordons Farm	Long Green, Ashes Road, Cressing, Braintree Essex, CM7 8DL	Hazardous Transfer Station		2,500
Mead Park Depot	Riverway Harlow Essex CM20 2SE	Hazardous Transfer Station		24,999
Belsteads Farm	Essex Regiment Way, Broomfield, Chelmsford, CM3 3PZ	Hazardous Transfer Station	150,000	75,000

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Fairview	Magpie Lane, Little Warley, Brentwood, CM13 3DT	Hazardous Transfer Station		74,999
Herons Court TS	10 Herons Court, Cranes Farm Road, Basildon, Essex	Hazardous Transfer Station		24,999
Cohart	Unit 17 TS, Kavanaghs Yard (formally Toys yard), Archers Field Burnt Mills Basildon Essex SS13 1DH	Hazardous Transfer Station		24,999
Aspect Contracts (Asbestos) Ltd	Yard 1&2 Runwood Road Charfleets Ind Est. Canvey Island Essex SS8 0PL	Hazardous Transfer Station		24,999
Bulk Storage	Hole Haven Wharf Haven Road Canvey Island Essex SS8 0NR	Hazardous Transfer Station		75,000
Manor Trading Est, Asbestos Surveys & Solutions	Unit 10, Brunel Road, Manor Trading Estate, Thundersley, Essex, SS7 4PS	Hazardous Transfer Station		
Safety-Kleen	Christy Way Southfield Ind Estate Laindon, Basildon Essex SS15 6TR	Hazardous Transfer Station		24,999

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
ICEX Limited	Unit 3, Europa Park, Croft Way, Witham, Essex, CM8 2FN	Hazardous Transfer Station		24,999
Chelmsford Borough Council Depot	Freighter House, Drovers Way, Boreham, Chelmsford, Essex, CM2 5PH	Hazardous Transfer Station		24,999
Promenade Park Depot	Off Park Drive, Maldon, Essex	Hazardous Transfer Station		24,999
Pectel Court	Burnt Mills Road, Basildon Essex SS13 1DT	Hazardous Transfer Station	3,650	N/A

Proposed SAFEGUARDED Recycling Centres for Household Waste

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and planning permission as they are considered to be strategic to support delivery of the MWMS.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Saffron Walden HWRC	Veerman's Lodge, Thaxted Road Saffron Walden Essex CB10 2UR	RCHW		24,999
Shalford HWRC	Braintree Road Shalford Essex, CM7 5HG	RCHW		24,999

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Witham HWRC	Perry Road Witham Essex CM8 3UD	RCHW		24,999
Shrub End HWRC	Maldon Road Shrub End Colchester Essex	RCHW		24,999
West Mersea RCHW	Uplands Road West Mersea Essex CO4 8DX	RCHW		24,999
Martins & Wellwick Farms HWRC	Colchester Road St Osyth, Clacton On Sea CO16 8HN	RCHW		24,999
Clacton HWRC	Rush Green Road Clacton On Sea Essex CO16 7AD	RCHW		24,999
Maltings Lane HWRC	Maltings Lane Kirby Le Soken Essex CO13 0EH	RCHW		24,999
Dovercourt HWRC	West End Hall Lane Dovercourt Essex, C012 3TA	RCHW		24,999
Lawford HWRC	Greensmill, Lawford, Essex, CO11 1UW	RCHW		24,999
Templebank HWRC	Templebank Harlow Essex CM20 2TT	RCHW	12,500	24,999

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Town Mead HWRC	Brooker Road Waltham Abbey Essex EN9 1JH	RCHW	25,000	24,999
Mill Lane HWRC	High Ongar, Essex CM5 9RH	RCHW		24,999
Luxborough Lane HWRC	Luxborough Lane Chigwell Essex IG7 5AA	RCHW		24,999
Drovers Way HWRC	Drovers Way Springfield Chelmsford Essex, CM2 5PP	RCHW		24,999
South Woodham Ferrers HWRC	Ferrers Road South Woodham Ferrers Essex, CM3 5XH	RCHW		24,999
Maldon HWRC	Promenade Park Depot, Park Drive Maldon Essex, CM9 5UR	RCHW		24,999
Springfield Road HWRC	Springfield Road Burnham On Crouch Essex, CM0 8AV	RCHW		24,999
Coxtie Green HRWC	Coxtie Green Road Brentwood Essex CM14 5PN	RCHW		24,999
Mountnessing HWRC	Roman Road Mountnessing Essex CM4 4AA	RCHW		24,999

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Pitsea HWRC	Pitsea Hall Lane Pitsea Basildon Essex SS16 4UH	RCHW		24,999
Rayleigh HWRC	Castle Road, Rayleigh Essex, SS6 7QF	RCHW		24,999
Canvey Road HWRC	Canvey Road Canvey Island Essex SS8 0QA	RCHW		24,999
Leigh Marsh HWRC	Two Tree Island, Leigh-on Sea, Essex, SS9 2ET	RCHW		24,999
Stock Road HWRC	Stock Road Southend-On-Sea Essex	RCHW		24,999

Proposed Safeguarded Strategic Construction and Demolition Recycling Facilities

The following sites are proposed to be safeguarded, in accordance with their EA operating licence and planning permission. They have been defined as strategic as they can process at least 100,000 tonnes of C&D waste per annum, without significant amenity issues. Similarly they are defined as Strategic Aggregate Recycling Sites in the MDD.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Colchester Quarry	Warren Lane, Stanway, Colchester, CO3 0NN	C&D Inert & Non Inert	190,000	75,000

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Bulls Lodge	Bulls Lodge Quarry, Generals Lane, Boreham, Chelmsford, CM3 3HR	C&D Inert & Non Inert	100,000	
JKS	Roach Valley Works, 53 Purdey's Way, Purdey's Ind Est., Rochford, Essex, SS4 1LZ	C&D Inert & Non Inert	160,000	74,999

Proposed safeguarded Strategic Materials Recycling Facilities

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and planning permission, for Materials Recycling Facilities and are considered strategic as they have a throughput of 50,000 tpa or greater.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Belsteads Farm,	Essex Regiment Way, Broomfield, Chelmsford, CM3 3PA	MRF	150,000	
Rivenhall Airfield (II)	Rivenhall Airfield Recycling & Composting Facility, Silver End, Braintree	MRF	100,000	N/A
Rivenhall Airfield (II)	Rivenhall Airfield Recycling & Composting Facility, Silver End, Braintree	MRF	331,000	N/A

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Courtauld Road	Land Between Courtauld Road (Burnt Mills Industrial Estate) and A127 (Southend Arterial Road) and land immediately to the north of the A127 Planning Reference: ESS/04/07/BAS	MRF	80,000	N/A
Vintner House	River Way, Harlow	MRF	64,800	N/A

Proposed Safeguarded Strategic Composting Facilities

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and planning permission for Composting Facilities and are considered strategic as open windrow facilities or In-Vessel composting facilities subject to permanent permission or for the life of the plan period.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Pitsea	Pitsea Hall Lane Pitsea Basildon Essex SS16 4UH	Open Windrow Composting	46,800	74,999
Colchester Quarry	Warren Lane, Stanway, Colchester, CO3 0NN	Unspecified composting		75,000
Sandon Quarry,	Southend Road, Chelmsford, Essex, CM2 7TE	In-Vessel Composting	30,000	N/A

Proposed safeguarded Strategic Hazardous and WEEE Treatment Facilities

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and planning permission, and have been defined as strategic as they deal with specialist types of waste.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Hole Haven Wharf	Haven Road Canvey Island Essex SS8 0NR	Hazardous Treatment		75,000
Eastways	29 Eastways Witham Essex CM8 3YQ	WEEE		24,999

Proposed safeguarded Strategic Mechanical Biological Treatment Facilities

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and planning permission, and have been defined as strategic as they have a throughput of 100,000tpa or greater.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Rivenhall Airfield (II)	Rivenhall Airfield Recycling & Composting Facility, Silver End, Braintree.	MBT	250,000	N/A
Stanway	Colchester Quarry, Warren Lane, Stanway, Colchester	MBT	250,000	N/A
Pitsea	Pitsea Hall Lane Pitsea Basildon Essex SS16 4UH	MBT	100,000	N/A
Courtauld Road	Land Between Courtauld Road (Burnt Mills Industrial Estate) and A127 (Southend Arterial Road) and land immediately to the north of the A127	MBT	378,000	N/A

Proposed Safeguarded Strategic Anaerobic Digestion Facilities

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and planning permission. They have been defined as strategic as they have a throughput of 50,000tpa or greater.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Courtauld Road	Land Between Courtauld Road (Burnt Mills Industrial Estate) and A127 (Southend Arterial Road) and land immediately to the north of the A127	Anaerobic Digestion	107,000	N/A
Rivenhall Airfield (II)	Rivenhall Airfield Recycling & Composting Facility, Silver End, Braintree.	Anaerobic Digestion	85,000	N/A
Stanway	Colchester Quarry, Warren Lane, Stanway, Colchester	Anaerobic Digestion	50,000	N/A

Proposed Safeguarded Strategic Autoclave Facilities

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and planning permission, they have been defined as strategic as they have a throughput of 50,000tpa or greater.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Vintner House	River Way, Harlow	Autoclave	52,800	N/A

Proposed Safeguarded Strategic Combined Heat and Power Facilities

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and planning permission, they have been defined as strategic as they have a throughput of 100,000tpa or greater.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	PERMITTED CAPACITY (Tonnes)	
			Planning Permission	EA Licence
Stanway	Colchester Quarry, Warren Lane, Stanway, Colchester	Biogas Fired Power Generator		N/A
Rivenhall Airfield (II)	Rivenhall Airfield Recycling & Composting Facility, Silver End, Braintree.	CHP	297,000	N/A
Vintner House	River Way, Harlow	CHP	122,400	N/A

Proposed Safeguarded Inert Landfill Facilities

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and current planning permission, are to be safeguarded as capacity required in Plan period, for the life of the planning permission.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	Aggregated Estimated Voidspace at 31/03/2010 (m ³)	Average Annual Deposits (2009 to 2010)
Wivenhoe Landfill	Keelars and Sunnymead Extension Elmstead Road Wivenhoe Colchester Essex CO7 9JY	Inert Landfill	1,041,113	
Blackleys	Blackleys, Essex Showground, Great Leighs	Inert Landfill		
Royal Oak	Chelmsford Road, Danbury Chelmsford	Inert Landfill		
Widdington Pit	Widdington Pit	Inert Landfill		

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	Aggregated Estimated Voidspace at 31/03/2010 (m ³)	Average Annual Deposits (2009 to 2010)
Little Easton - Highwood Quarry	Little Easton Airfield Little Easton Gt Dunmow CM6 2BB	Inert Landfill		140,000m ³

Proposed Safeguarded Non Hazardous Landfill Facilities

All licensed facilities and those with current planning permission, are proposed to be safeguarded for the life of their planning permission as capacity is required during the plan period until new waste management facilities higher up the hierarchy are developed. Additionally, despite moving waste management up the hierarchy, there will always be a need to dispose of some 'residual' waste.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	Estimated Aggregated Voidspace at 31/03/2010 (m ³)	Aggregated Average Annual deposits (2009 to 2010)
Elsenham Quarry	Henham Road Elsenham Bishops Stortford Hertfordshire CM22 6DJ	Non Hazardous Landfill	15,524,928	1,387,032
Ugley Quarry, (Ugley Landfill Site)	Cambridge Road Ugley Bishop's Stortford Herts. CM22 6HT	Non Hazardous Landfill		
Bellhouse Landfill	Warren Lane Stanway Colchester Essex CO3 5NN	Non Hazardous Landfill		
Roxwell	Brittons Hall farm Site Chignal St James, Chelmsford Essex CM1 4LT	Non Hazardous Landfill		

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	Estimated Aggregated Voidspace at 31/03/2010 (m ³)	Aggregated Average Annual deposits (2009 to 2010)
Pitsea Landfill	Pitsea Hall Lane Pitsea Basildon Essex SS16 4UH	Non Hazardous Landfill		
Barling Magna Landfill,	Barling Marsh Barling Magna Southend-on-sea Essex SS3 0LL	Non Hazardous Landfill		
Martell's Quarry	Slough Lane, Ardleigh, Colchester, Essex, CO7 7RU	Non Hazardous Landfill		
Crumps Farm	Crumps Farm, Stortford Rd, Little Canfield, Great Dunmow, CM6 1SR	Non Hazardous Landfill		
Stanway	Colchester Quarry, Warren Lane, Stanway, Colchester	Non Hazardous Landfill	7,400,000 (3,450,000 available during plan period)	Between 194,000m ³ and 200,000m ³

Proposed Safeguarded Hazardous Landfill Facilities

The following site is proposed to be safeguarded, in accordance with their EA operating licence and planning permission. This facility deals with specialist types of waste.

SITE NAME	SITE ADDRESS	SPECIFIC FACILITY TYPE	Estimated Voidspace at 31/03/2010 (m ³)	Average deposits (2009 to 2010)
Roxwell	Brittons Hall farm Site Chignal St James, Chelmsford Essex CM1 4LT	Hazardous Landfill	21,986	

Proposed Safeguarded Waste Water Treatment Works

The following facilities are proposed to be safeguarded, in accordance with their EA operating licence and planning permission, All are required to meet existing population requirements and future planned growth in the Plan area.

Asset Name	Operator	Location of WwTW
Basildon WwTW	AWS	Basildon
Pitsea	AWS	Basildon
Billericay WwTW	AWS	Basildon
Pitsea	AWS	Basildon
Wickford	AWS	Basildon
Ashen WwTW	AWS	Braintree
Baythorpe End WwTW	AWS	Braintree
Belchamp St Paul WwTW	AWS	Braintree
Belchamp Walter WwTW	AWS	Braintree
Bocking WwTW	AWS	Braintree
Braintree WwTW	AWS	Braintree
Bulmer Tye WwTW	AWS	Braintree
Bulmer Willage WwTW	AWS	Braintree
Coggeshall WwTW	AWS	Braintree
Cornish Hall End	AWS	Braintree
Earls Colne WwTW	AWS	Braintree
Foxearth	AWS	Braintree
Gestingthorpe	AWS	Braintree
Gosfield WwTW	AWS	Braintree
Great Maplestead	AWS	Braintree
Greenstead Green	AWS	Braintree
Halstead	AWS	Braintree
Halstead Boxmill Lane WwTW	AWS	Braintree
Lt Yeldham	AWS	Braintree

Asset Name	Operator	Location of WwTW
Pebmarsh	AWS	Braintree
Pentlow	AWS	Braintree
Rayne WwTW	AWS	Braintree
Ridgewell WwTW	AWS	Braintree
Rivenhall End	AWS	Braintree
Shalford WwTW	AWS	Braintree
Sible Hedingham High Street WwTW	AWS	Braintree
Sible Hedingham WwTW	AWS	Braintree
Stambourne WwTW	AWS	Braintree
Steeple Bumpstead WwTW	AWS	Braintree
Stisted	AWS	Braintree
Toppersfield	AWS	Braintree
Wetherfield	AWS	Braintree
White Notley	AWS	Braintree
Wickham St Paul	AWS	Braintree
Witham	AWS	Braintree
Doddinghurst WwTW	AWS	Brentwood
Ingatestone	AWS	Brentwood
Shenfield and Hutton WwTW	AWS	Brentwood
Upminster, Brentwood	AWS	Brentwood
Benfleet WwTW	AWS	Castle Point
Canvey Island WwTW	AWS	Castle Point
Rayleigh-East WwTW	AWS	Castle Point
Chelmsford WwTW	AWS	Chelmsford
Good Easter WwTW	AWS	Chelmsford
Great Leighs WwTW	AWS	Chelmsford
Highwood	AWS	Chelmsford
Pleshey	AWS	Chelmsford

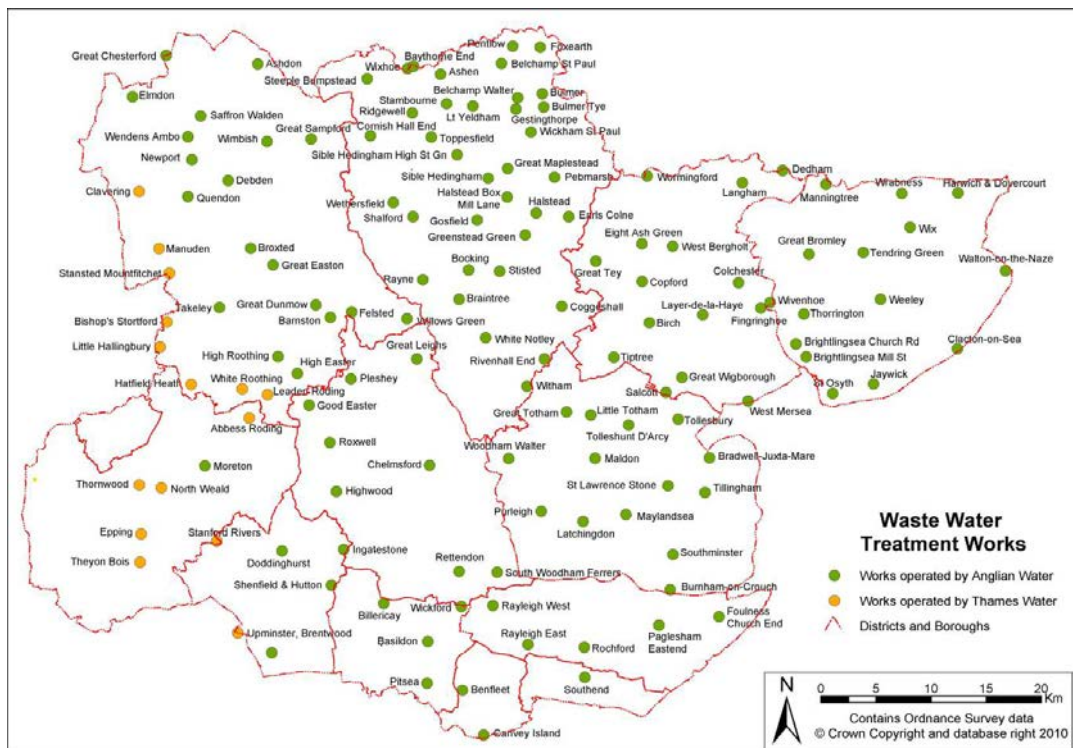
Asset Name	Operator	Location of WwTW
Rettendon	AWS	Chelmsford
Roxwell WwTW	AWS	Chelmsford
South Woodham Ferrers WwTW	AWS	Chelmsford
Birch WwTW	AWS	Colchester
Colchester WwTW	AWS	Colchester
Copford WwTW	AWS	Colchester
Dedham WwTW	AWS	Colchester
Eight Ash Green WwTW	AWS	Colchester
Fingringhoe WwTW	AWS	Colchester
Great Bromley WwTW	AWS	Colchester
Great Tey WwTW	AWS	Colchester
Great Wigborough WwTW	AWS	Colchester
Langham	AWS	Colchester
Layer de la Haye	AWS	Colchester
Salcott	AWS	Colchester
Tiptree	AWS	Colchester
Tolleshunt D'Arcy	AWS	Colchester
West Bergolt	AWS	Colchester
West Mersea	AWS	Colchester
Wormingford	AWS	Colchester
Moreton	AWS	Epping Forest
Bradwell on Sea WwTW	AWS	Maldon
Burnham on Crouch WwTW	AWS	Maldon
Great Totham	AWS	Maldon
Latchington	AWS	Maldon
Lt Totham	AWS	Maldon
Maldon	AWS	Maldon
Maylandsea	AWS	Maldon

Asset Name	Operator	Location of WwTW
Purleigh	AWS	Maldon
Southminster WwTW	AWS	Maldon
Stone St Lawrence	AWS	Maldon
Tillingham	AWS	Maldon
Tollesbury	AWS	Maldon
Woodham Walter	AWS	Maldon
Foulness Church Road	AWS	Rochford
Paglesham East End	AWS	Rochford
Rayleigh West	AWS	Rochford
Rochford WwTW	AWS	Rochford
Southend WwTW	AWS	Southend
Brightlingsea - Church Road WwTW	AWS	Tendring
Brightlingsea - Mill Street WwTW	AWS	Tendring
Clacton-on-Sea	AWS	Tendring
Harwich and Dovercourt	AWS	Tendring
Jaywick New WwTW	AWS	Tendring
Manningtree	AWS	Tendring
St Osyth WwTW	AWS	Tendring
Tendring Green	AWS	Tendring
Thorrington	AWS	Tendring
Walton on the Naze	AWS	Tendring
Weely	AWS	Tendring
Wivenhoe	AWS	Tendring
Wix	AWS	Tendring
Wixhoe	AWS	Tendring
Wrabness	AWS	Tendring
Barnston WwTW	AWS	Uttlesford
Broxted WwTW	AWS	Uttlesford

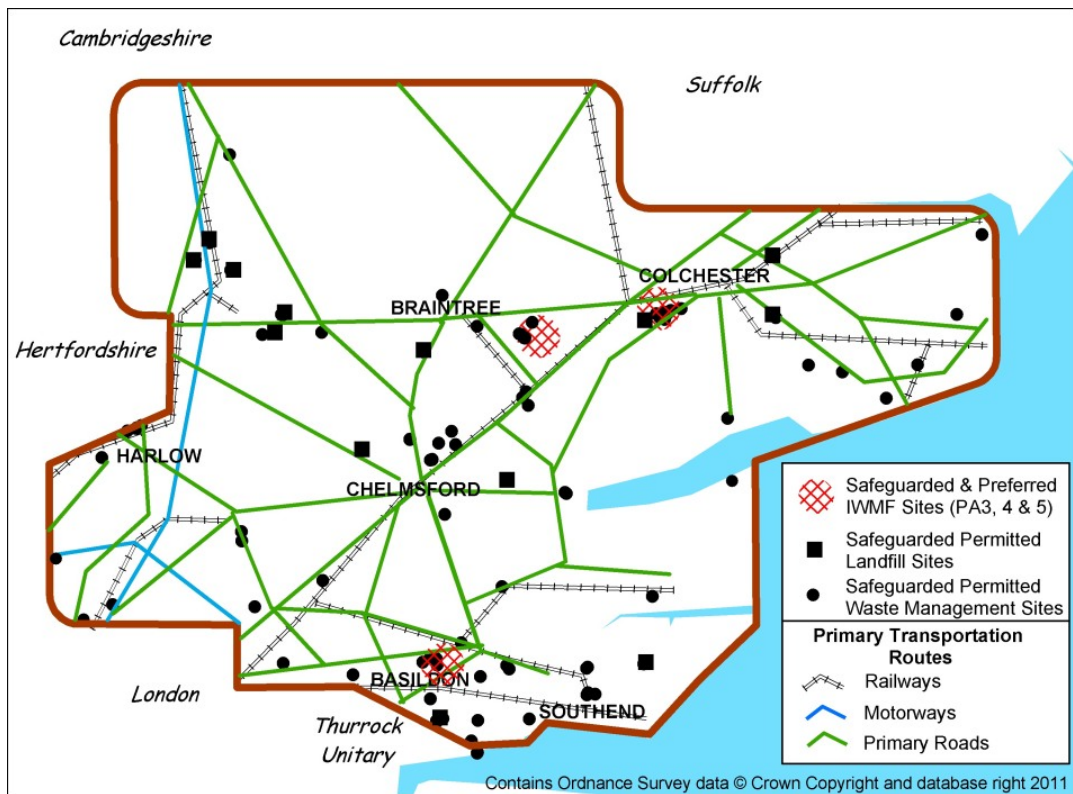
Asset Name	Operator	Location of WwTW
Debden WwTW	AWS	Uttlesford
Elmdon WwTW	AWS	Uttlesford
Felstead WwTW	AWS	Uttlesford
Great Chesterford WwTW	AWS	Uttlesford
Great Dunmow	AWS	Uttlesford
Great Easton WwTW	AWS	Uttlesford
Great Stamford	AWS	Uttlesford
High Easter	AWS	Uttlesford
High Roding	AWS	Uttlesford
Newport	AWS	Uttlesford
Quendon	AWS	Uttlesford
Saffron Waldon WwTW	AWS	Uttlesford
Wendens Ambo	AWS	Uttlesford
Willows Green	AWS	Uttlesford
Wimbish	AWS	Uttlesford
Ashdon WwTW	AWS	Uttlesford
Abdess Roding	TWU	Epping Forest
Epping	TWU	Epping Forest
Stamford Rivers	TWU	Epping Forest
Theydon Bois	TWU	Epping Forest
Bishops Stortford WwTW	TWU	Uttlesford
Clavering	TWU	Uttlesford
Hatfield Heath	TWU	Uttlesford
Leaden Roding	TWU	Uttlesford
Lt Hallingbury	TWU	Uttlesford
Manuden	TWU	Uttlesford
North Weald	TWU	Uttlesford
Stansted Mountfitchet WwTW	TWU	Uttlesford

Asset Name	Operator	Location of WwTW
Takeley	TWU	Uttlesford
Thornwood	TWU	Uttlesford
White Roothing	TWU	Uttlesford

Map 1 All Safeguarded WwTW Sites Proposed in the Plan Area



Map 2 All Safeguarded (Non-WwTW) Sites Proposed in the Plan Area



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