



Rivenhall EfW - IWMF:
Local Impact Report

Essex County Council

PINS REFERENCE: EN010138

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1 Index of appendices

- 1) *Appendix 1 – Inspector Report Ref APP/Z1585/V/09/2104804 dated 22 December 2009 (ECC Ref ESS/37/08/BTE)*
- 2) *Appendix 2 – SOS Decision Ref APP/Z1585/V/09/2104804 dated 2 March 2010 (ECC Ref ESS/37/08/BTE)*
- 3) *Appendix 3 – ESS/34/15/BTE (Variation of IWMF permission) - Development & Regulation Committee Report 26 February 2016*
- 4) *Appendix 4 - ESS/34/15/BTE (Variation of IWMF permission) – Decision Notice dated 26 February 2016*
- 5) *Appendix 5 - Skills and Employment Principles for Major Project and Developments’ document*

2 Glossary of acronyms and abbreviations

AD – Anaerobic Digestion Plant

BDC – Braintree District Council

CHP – Combined Heat and Power Plant

DLUHC – Department for Levelling Up, Housing and Communities

DCO – Development Consent Order

dDCO – Draft Development Consent Order

EA – Environment Agency

ECAC - Essex Climate Action Commission

ECC – Essex County Council

EfW – Energy from Waste

ES – Environmental Statement

GHG – Greenhouse Gas Emissions

IWMF - Integrated Waste Management Facility

LIR – Local Impact Report

MBT – Mechanical Biological Treatment Plant

MDIP - Merchant De Ink Paper Pulp Plant

MW – Mega Watts

NPPF – National Planning Policy Framework

NPS – National Policy Statement

NPSNN – National Policy Statement for National Networks

NSR – Noise Sensitive Receptors

OS - Ordnance Survey

PA – Planning Act

PINS – Planning Inspectorate

SoS - Secretary of State

TCPA – Town and Country Planning Act

WLP – Waste Local Plan

WPA – Waste Planning Authority

3 Terms of Reference

3.1 Introduction

- 3.1.1 This report comprises the Local Impact Report (LIR) of Essex County Council (ECC).
- 3.1.2 The Council has had regard to the purpose of LIR's as set out in s60(3) of the Planning Act 2008 (as amended), DLUHC (then DCLG) Guidance for the Examination of Applications for Development Consent, the Planning Inspectorate's Advice Note One, Local Impact Reports and the Planning Inspectorates 'Example Documents', in preparing this LIR.
- 3.1.3 The applicant, Indaver Rivenhall Ltd, has submitted a Development Consent Order (DCO) application to increase the generating capacity of the Energy from Waste (EfW) of the existing Rivenhall Integrated Waste Management Facility (IWMF), which was granted planning permission through the Town and Country Planning Act 1990 (as amended) (TCPA) by ECC as a Waste Planning Authority (WPA) (ECC ref: ESS/34/15/BTE, dated 26 February 2016). The planning permission allows the IWMF to generate up to 49.9 megawatts of electrical energy (MW). This LIR seeks to address the local impact of the proposals as are submitted.
- 3.1.4 The LIR relates primarily to the impacts of the proposed development as a whole but with a particular focus on Braintree District in Essex, who will be submitting their own LiR.
- 3.1.5 The proposed development comprises of one of two work options as set out in the submitted ES Chapter 3 "Proposed Development and Construction (APP-028)

Work No. 1 - An extension to the existing generation station comprising mechanical modifications to the actuated steam turbine inlet control valves to allow steam capacity to be increased, with the effect that the extended generating station will have a gross installed generating capacity of over 50MW; and

Work No. 2 - An extension to the existing generation station comprising the installation and commissioning of unrestricted actuated stem turbine inlet control valves with a capacity over 50 MW, with the effect that the extended generation station will have a gross installed generating capacity of over 50MW.

- 3.1.6 The LIR does not describe the proposed development any further, relying on the Applicant's detailed description as set out in Document APP 6.1 Chapter 3 of the Environmental Statement, Heading 3 (Proposed Development and Construction) (APP-028)
- 3.1.7 There is a complex planning history in the areas affected in Braintree District.
- 3.1.8 Planning permission for the Rivenhall IWMF was originally granted by the Secretary of State (SoS) in 2010 following a call-in inquiry. A copy of the Inspector's Report and SoS Decision are attached as **Appendix 1 and 2**. The planning permission has been subject to a number of S73/variation applications; the most relevant being made in 2015 with Ref. ESS/34/15/BTE granted in March 2016, determined by ECC as Waste Planning Authority (WPA). This application sought to amend the capacities of various elements of the IWMF i.e., the capacities of Combined Heat and Power Plant (CHP), Materials Recycling Facility (MRF), Mechanical Biological Treatment Plant (MBT), Anaerobic Digestion plant (AD) and the Merchant De Ink Paper Pulp Plant (MDIP). While the balance of capacities between the various elements of the IWMF was changed, the overall input of waste was not, and remains restricted at 853,000tpa. The planning application in 2015 also sought to discharge a number of conditions of the original permission. A copy of the Development & Regulation Committee Report Feb 2016 and the Decision Notice Mar 2016 is provided at **Appendix 3 and 4** respectively.
- 3.1.9 The IWMF was permitted on the basis of an "integrated facility" combining a number of waste management processes and a de-ink paper pulp plant, to make use of the excess heat and steam. The IWMF included a CHP which would in part generate electricity, but the application in 2016 proposed approximately half the electricity and heat and steam generated at the site

would be used to power other elements of the IWMF and some of the heat and steam generated by the CHP would be used directly in the MDIP.

3.1.10 Condition 66 of ESS/34/15/BTE required a plan of action or a rehabilitation scheme if the development of the IWMF had not progressed which was a possibility at the time of the decision on ESS/34/15/BTE as no Environmental Permit had been obtained. The developers have indicated, when submitting details to discharge condition 66 of the planning permission by application ESS/34/15/BTE/66/01, that elements of the IWMF are no longer technically or commercially viable and at the current time development of the IWMF is focusing on the CHP/EFW. This discharge of condition application highlighted to the WPA that the developer's intention was to focus on the development of the CHP/EfW, potentially bringing into operation the CHP/EfW, without the other integrated elements of the IWMF. The submission of condition 66 was determined, subject to conditions which required implementation of the whole IWMF development. The applicant appealed against the decision, but the appeal was withdrawn following the grant of a S73 application (ESS/39/23/BTE) to delete condition 66 in its entirety. However, the WPA remains of the view that potentially there may be a breach of planning control if the CHP/EfW were brought into operation alone, without integration with the other permitted elements of the IWMF.

3.1.11 However, WPA considers that, if the DCO were granted as set out in the draft DC Order, the Order would not undermine the WPA positions with respect to any potential future breach of planning control. The ability to generate more power beyond 49.9MW does not preclude the developer from generating less energy and utilising power and or heat/steam within the other permitted elements of the IWMF.

3.1.12 The IWMF planning permission has, as mentioned, been subject to a further S73 application reference ESS/39/23/BTE granted on 26 January 2024, which is the current extant planning permission (which has been subject to Non-Material Amendment applications). There also remains another S73 application ESS/02/22/BTE (For additional time to complete works to

Woodhouse Farm Listed Building) outstanding, which is resolved to be granted awaiting the completion of a legal agreement.

3.2 Purpose and Structure of the LIR

3.2.1 S60 (3) of the 2008 Planning Act defines Local Impact Reports as:

“a report in writing giving details of the likely impact of the proposed development on the authority’s area.”

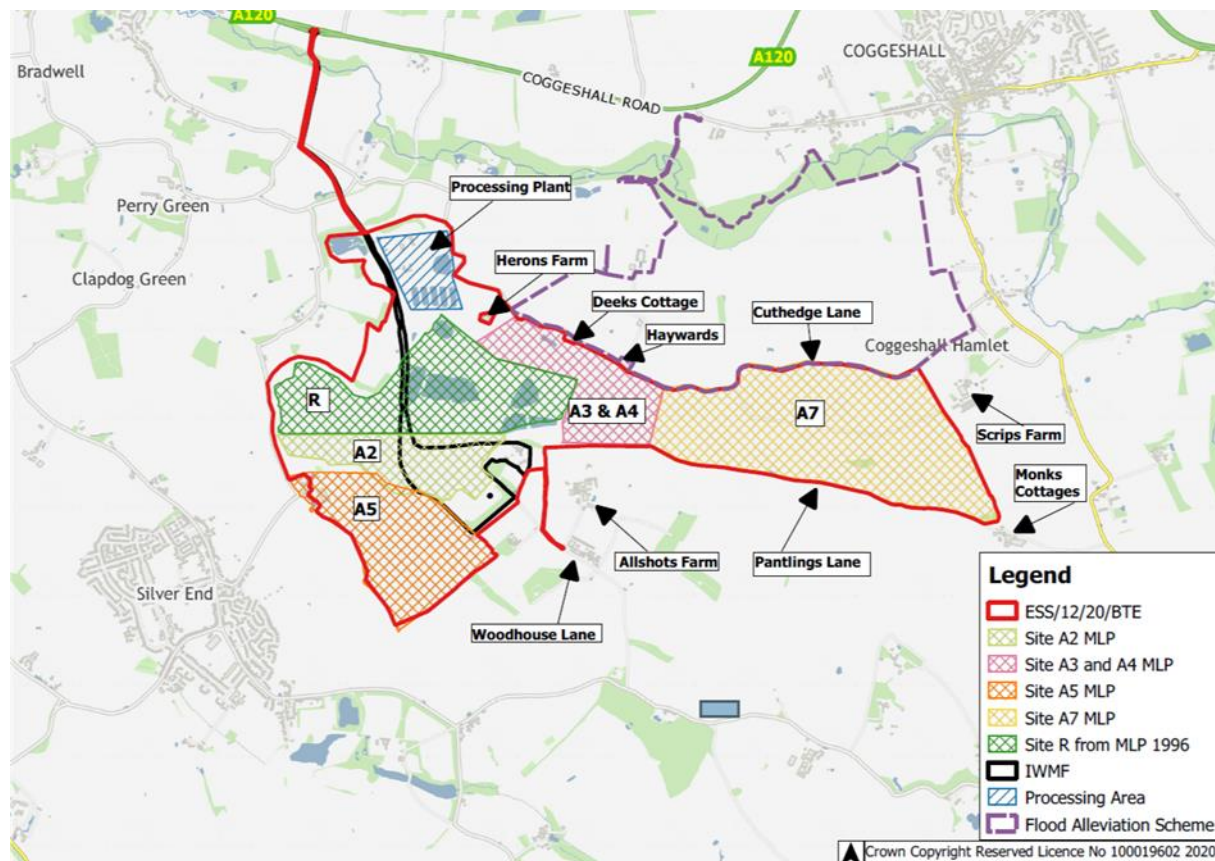
3.2.2 The LIR identifies relevant policies within BDC and ECC’s Adopted Development Plan and the extent to which the proposed development accords with these policies. Topic based headings are used as a framework to set this assessment of the impacts within and key issues are identified along with commentary on the applicant’s approach to mitigating these impacts.

4 Description of the Area

4.1 Project Boundaries & Sections

- 4.1.1 The development is in the administrative areas of Braintree District Council (BDC) and Essex County Council (ECC).
- 4.1.2 The Rivenhall IWMF site is located east of Braintree, approximately 1km to the northeast of Silver End and approximately 3km southwest of Coggeshall and approximately 3km southeast of Bradwell village. The site is 25.3 ha in total which includes the access road.
- 4.1.3 The IWMF site at its northern end comprises a narrow strip of land leading southwards from the A120 Coggeshall Road, the location of the access road. To the south the IWMF site widens into an irregular shaped plot of land.
- 4.1.4 The IWMF site lies within the boundaries of both Bradwell Parish and Kelvedon Parish, the access road being mainly within Bradwell Parish and the remainder of the access road and IWMF itself lying within Kelvedon Parish.
- 4.1.5 The IWMF site lies on the southern part of the former Rivenhall airfield; the runways have been removed as part of mineral extraction. The IWMF site (not including the access road) is located approximately 1.7km south of Coggeshall Road (A120) and includes the Grade II Listed Buildings of Woodhouse Farm.
- 4.1.6 The Woodhouse Farm buildings are located on the southeastern side of the IWMF site and included in the IWMF planning permission area. The IWMF site also includes woodland protected by Tree Preservation Order, which surrounds the southern boundary of the IWMF itself.
- 4.1.7 The IWMF site also included an airfield hangar which, upon implementation of IWMF permission in 2016, was removed.
- 4.1.8 The IWMF site overlaps with Bradwell Quarry, where sand and gravel extraction are currently taking place within Minerals Local Plan Preferred site A7. The location plan below shows the extent of previous and current mineral extraction areas; site R permitted in 2001; site A2 permitted in 2011 (which included extraction in part of the site for the IWMF); sites A3 and A4 permitted in 2015; and site A5 granted in 2019. Previously worked out areas of the quarry have

been restored at low level to arable agriculture with new hedgerows and woodland planting. Areas of Bradwell Quarry (sites R, A2, A3, A4 and A5) are undergoing or awaiting restoration to a combination of arable, woodland and water.



4.1.9 The IWMF site is set within a predominantly rural character area, consisting of arable crops in large fields, often without boundaries resulting in an open landscape in gently undulating countryside. The landform around the site forms a flat plateau at about 50m Above Ordnance Datum, although the restored minerals workings to the northwest (site R) and southwest (site A5) have been or will be restored at a lower level, creating bowls in the landscape. Sites A3 and A4 have been restored to near natural levels utilising overburden from the IWMF site.

4.1.10 The nearest residential properties, not including Woodhouse Farm (not occupied), include The Lodge and Allshots Farm located to the east of the IWMF site, approximately 450m away. To the north/northeast on Cuthedge

Lane are Heron's Farm at approximately 700m from the site of the IWMF, Deeks Cottage at approximately 850m and Haywards 920m from the site of the IWMF. To the west of the site on Sheepcotes Lane lies Sheepcotes Farm, 580m from the site of the IWMF, also Gosling's Cottage, Gosling's Farm and Goslings Barn and Greenpastures all approximately 1200m from the site of the IWMF. Properties to the southwest within Silver End village lie approximately 500m from the site of the IWMF. Parkgate Farm lies south of the site, approximately 1000m from the site of the IWMF.

- 4.1.11 Approximately 400m to the east of the IWMF site boundary and Woodhouse Farm, lies a group of buildings, including the Grade II listed Allshots Farm and a scrap yard.
- 4.1.12 Approximately 500m to the southeast of the IWMF, beyond agricultural fields, there is a group of buildings known as the Polish site. These buildings are used by a number of businesses and form a small industrial and commercial estate to which access is gained via a public highway (Woodhouse Lane leading from Parkgate Road).
- 4.1.13 A further business operates on the southwest edge of the IWMF site, at the "Elephant House", the building being the fire station for the redundant airfield. The site is used by a road sweeping company, but the site is well screened by mature evergreen trees.
- 4.1.14 The permitted vehicular route to the IWMF site shares the existing access on the A120 and the private access road for Bradwell Quarry. The access route crosses the River Blackwater by two bailey style bridges and crosses Church Road and Ash Lane (a Protected Lane as defined in Braintree District Local Plan 2023). The access road has now been extended to the IWMF site, and is two way, except where it crosses Church Road and Ash Lane.
- 4.1.15 Access for staff and visitors is permitted from the south via Woodhouse Lane to the IWMF Information Hub, located in the IWMF site on the southeast of the construction area of the IWMF.
- 4.1.16 The private access road from the A120 crosses the River Blackwater at the current time the previous bailey bridges are being replaced with a stronger

bridge to enable abnormal loads to be delivered via the main access. Until this bridge is available through a non-material amendment a limited number of abnormal loads are permitted via Woodhouse Lane.

4.1.17 A similar area to that of the IWMF application site is allocated in the adopted Waste Local Plan 2017 (WLP) as a site IWMF2 for residual non-hazardous waste management and biological treatment.

4.1.18 The land comprising the IWMF site has no designations within the Braintree District Local Plan 2023.

4.1.19 There are two Local Wildlife Sites (LoWS) within 3 km of the IWMF site at Blackwater Plantation West, which is within the Blackwater Valley which the access road crosses. The second LoWS is at Storey's Wood (south of the site), which is also an Ancient Woodland.

4.1.20 There are 4 Grade II Listed properties within 1km of the IWMF site including Woodhouse Farm and buildings (within 200m), Allshots Farm and Lodge (400m away) to the east and Sheepcotes Farm (1000m) to the west.

4.1.21 Five footpaths (FP's Bradwell 19, 35, 57 [Essex Way], 58) are crossed by the access road to the IWMF. There is also a public footpath No. 8 (Kelvedon) which heads south through the Woodhouse Farm complex.

4.1.22 The site is located within what is considered a quiet and sensitive rural location.

5 Policy Context

5.1 National Policy

- 5.1.1 When deciding DCO submissions s104(2)(d) of the Planning Act (PA) 2008 requires the Secretary of State (SoS) to have regard to any other matters considered both important and relevant. The National Policy Statements for National Networks (NPSNN) requires consideration to be given to policies and information in the development plan to matters including other developments which may give rise to cumulative impacts, non-designated heritage assets, impacts on land use and the preclusion of other development.
- 5.1.2 The national policy governing the principle of development for Renewable Energy proposals is the National Policy Statement (NPS) EN-3, which should be read together with the overarching NPS for Energy, EN-1.
- 5.1.3 In considering the developments impact on National Policy the applicants have submitted within their Planning Statement at Section 5 and 6 in the document reference 7.1 (at APP-047) an assessment of the policy compliance of this DCO.
- 5.1.4 Section 5 of APP-047 sets out the Policy considerations which need to be assessed by this DCO proposal. ECC are of the view that the Policies as set out are comprehensive.
- 5.1.5 Within Section 6 of APP-047 the applicants comment on the impact of the aforementioned policies on this DCO submission. ECC notes the guidance in EN1 which start with a presumption in favour of granting consent for energy NSIPs, unless any more specific and relevant policies set out in the relevant NPSs clearly indicate that consent should be refused. ECC is considering a number of energy DCO proposals and electricity transmission projects also by DCO and therefore understand the 'level, urgency and need' for new energy infrastructure of the types covered by NPS EN-1 and the technology specific NPSs as we move towards a Govt target of reaching net zero by 2050.
- 5.1.6 ECC also recognises that the DCO here under consideration seeks to maximise the electricity output of the site by using new technology without significant

changes to the waste stream, which is attracted by Rivenhall, the approved building envelope, and with no additional vehicle numbers proposed, and that the development as submitted has been the subject of an ES. This ES has been the subject of a Scoping Opinion (SO) from PINS, with matters in relation to Climate Change and Noise being the factors Scoped into the ES.

- 5.1.7 It is also correct that the development which this proposal will change is under construction, and the limitations and operations on site are covered by existing planning conditions which the applicant has to comply with.
- 5.1.8 Within EN1 at para 4.2.2 applicants are asked to provide information on the likely significant social and economic effects of the Proposed Development, including how any likely significant negative effects would be avoided or mitigated. It is correct that in Scoping this development PINS scoped out socio environmental effects of the development and the applicant's submission that there are no substantive changes to the scheme that would impact on socio economic factors, for example the workforce would not change, and site operations would remain as previously considered.
- 5.1.9 ECC does however wish to provide comment on socio economic factors, which are included within this LiR.
- 5.1.10 Given the impact of the scheme here to be considered ECC holds the view that EN1 4.3 (Habitats Regulations) is complied with.
- 5.1.11 In terms of alternatives as by EN1 4.4 a DCO applicant is asked to set out what the reasonable alternatives are relevant, and does so within paras 6.24 to 6.29 in APP-047 and agrees with the Applicants statement at para 6.29 which states; *"The ES makes clear that none of the alternatives are considered reasonable by the Applicant, and that the Proposed Development remains the best option available for delivering energy infrastructure capacity in accordance with the NPS. The requirements set out at paragraph 4.4.2 of EN-1 are satisfied."*
- 5.1.12 ECC is also of the view that, given the scope of the development as here applied for, EN1 4.5 (Good Design), EN1 4.6 (Combined Heat and Power), EN1 4.7 (Carbon Capture Storage), EN1 4.9 (Grid Connection), EN1 4.11 (Safety),

EN1 4.12 (Hazardous Substances), EN1 4.15 (Security) are here complied with.

5.1.13 In respect of the developments impact on climate change adaptation (EN1 4.8) and pollution control (EN1 4.10), which we reasonably consider includes noise, and human health (EN1 para 4.13.1) are commented upon further in this LiR.

5.1.14 ECC also note that the applicants at APP-047 within Table 3 have set out “Technology specific considerations that are relevant to the Proposed Development and that are contained in EN-3”. In this the conclusion reached is that “no conflict between the Proposed Development and the technology-specific considerations that are relevant to it” and ECC sees no reason to suggest that this conclusion is in any way inaccurate.

5.1.15 The National Planning Policy Framework (NPPF) (as amended) has a presumption in favour of sustainable development and this document is what the Statutory Development Policies are required to be in conformity with.

5.1.16 The Applicant, at para 6.75 in APP-047 also comments on what it calls draft revisions to EN1 and EN3 which are now adopted. Nevertheless, the conclusions as reached in Table 6 and 7 are accepted, and the Council provides its own comments on emissions (noise) and climate change as are relevant to the current documents.

5.1.17 For the NPPF, which carries the overriding golden thread of planning policy, encourages sustainable development where the environment and amenity can be safeguarded from detrimental impact. Clearly the direction here is to similarly agree that the principal policies and objectives within the NPPF have been complied with. What fails to be considered here are the impact of the scheme on climate change, and noise, which are covered later in this LiR.

5.2 Statutory Development Plan (BDC and ECC)

5.2.1 The Council’s statutory Development Plan consists of the Braintree District Local Plan 2013 – 2033 (herein referred to as the ‘Adopted Local Plan’). Section 1 of the Local Plan was adopted on 22nd February 2021, and Section 2 of the Local Plan was adopted on 25th July 2022. As such, the Local Plan is therefore

considered to be up to date. The specific relevant policies in the Development Plan will be referred to within the relevant section in the LIR.

- 5.2.2 There are also several Neighbourhood Plans within the District and where applicable these also form an important part of the Development Plan. There is the Kelvedon Neighbourhood Plan located within the development area.
- 5.2.3 At the County level, the Essex and Southend Waste Local Plan (2017) (WLP) is also a material consideration in terms of Development Plan considerations.
- 5.2.4 Further Local policies documents considered within the Order limits to manage climate change and gas emissions are:
- 5.2.5 Net Zero: Making Essex Carbon Neutral – Essex Climate Action Commission. The Essex Climate Action Commission has set out recommendations for Essex County Council on tackling the climate change crisis across six core themes, with a trajectory of targets and milestones that need to be met for Essex to become a net zero county by 2050. The six core themes are: Land Use and Green Infrastructure, Energy, the Built Environment, Transport, Waste and Community Engagement.
- 5.2.6 The Developer's Guide to Infrastructure Contributions, Revised 2020 Essex County Council has produced a developer's guide to infrastructure contributions which details the scope and range of contributions towards infrastructure which ECC may seek from developers and landowners in order to mitigate the impact and make development acceptable in planning terms.
- 5.2.7 Essex Sector Development Strategy. The strategy has identified five economic sectors with significant growth potential that could be realised in Essex. They cover construction and retrofit, clean energy, advanced manufacturing and engineering, Digi-tech and life sciences.
- 5.2.8 Green Skills Infrastructure Review for Essex County Council, March 2022. A review of green skills and related infrastructure has been undertaken to identify skills gaps and business needs, the capacity of existing providers and growth plans and to identify how existing or improved skills infrastructure can support the Essex Climate Change Commission's ambition to mitigate the effects of climate change.

5.3 Other Relevant Local Policy

5.3.1 The Council also has a number of Supplementary Planning Documents, comprising the Essex Coast RAMS SPD (2020) which is of relevance here.

5.3.2 The Kelvedon Neighbourhood Plan was adopted in July 2022 and provides the local community with a powerful tool to guide the long-term future of Kelvedon, for the period 2017 to 2033. The Plan includes a vision for the future of Kelvedon and sets out clear planning policies to realise this vision, and the relevant policies are:

5.3.3 Policy NE3 (*Protection Of Green Infrastructure and Biodiversity*) requires all development proposals should seek to maintain and enhance green infrastructure and biodiversity and should, wherever possible, provide net gains for biodiversity.

5.3.4 Policy NE7 (*Pollution*) seeks to resist development proposals that would have any significant increase in air, land, water, odour, noise, or light pollution to a level which could detrimentally impact upon the health, quality of life, and residential amenity of existing and future residents,

6 Principle of Development

6.1 National Policy

6.1.1 National Policy Statement (NPS) EN-1, part 3 sets out the Governments position that there is a significant need for new major infrastructure. NPS EN-3 sets out the relevant considerations for Renewable Energy Infrastructure in particular and is heavily linked to the criteria set out in NPS EN1.

6.2 Local BDC Development Plan Policies

6.2.1 Policy SP1 (*Presumption in Favour of Sustainable Development*) of the Adopted Local Plan states that the Local Planning Authorities ‘will take a positive approach that reflects the presumption in favour of sustainable development contained within the National Planning Policy Framework.’

6.2.2 Policy SP3 (*Spatial Strategy for North Essex*) of the Adopted Local Plan addresses the spatial strategy for North Essex, identifying that existing settlements will be the principal focus for additional growth with a settlement hierarchy to be identified. Beyond the main settlements the diversification of the rural economy and conservation and enhancement of the natural environment will be supported.

6.2.3 Policy SP6 (*Infrastructure and Connectivity*) of the Adopted Local Plan identifies the need for all development to be supported by the provision of infrastructure, services and facilities.

6.2.4 Policy LPP1 (*Development Boundaries*) of the Adopted Local Plan states that development outside development boundaries will be confined to uses appropriate to the countryside to protect the intrinsic character and beauty of the countryside.

6.2.5 Policy LPP71 (*Climate Change*) of the Adopted Local Plan sets out inter alia the Council’s approach to climate change with the intention that the District will meet part of its future energy needs through renewable or low carbon energy sources.

6.3 Local ECC Development Plan Policies

6.3.1 The following Policies within the current Essex and Southend Waste Local Plan 2017 (WLP) apply:

6.3.2 Policy 1 (*Need for Waste Management Facilities*) states in order to meet the future needs of the Plan area, waste development will be permitted to meet the shortfall in capacity of:

- a) Up to 218,000 tonnes per annum by 2031/32 of biological treatment for non- hazardous organic waste;
- b) Up to 1.95 million tonnes per annum by 2031/32 for the management of inert waste;
- c) Up to 200,000 tonnes per annum by 2031/32 for the further management of non-hazardous residual waste; and
- d) Up to 50,250 tonnes per annum by 2031/32 for the management of hazardous waste.

6.3.3 Policy 2 (*Safeguarding Waste Management Sites and Infrastructure*) states proposals which are considered to have the potential to adversely impact on the operation of a safeguarded waste site or infrastructure, including the site allocations within this Plan, are unlikely to be opposed where:

- a) a temporary permission for a waste use has expired, or the waste management use has otherwise ceased, and the site or infrastructure is considered unsuitable for a subsequent waste use; or
- b) redevelopment of the waste site or loss of the waste infrastructure would form part of a strategy or scheme that has wider environmental, social and/or economic benefits that outweigh the retention of the site or the infrastructure for the waste use, and alternative provision is made for the displaced waste use; or
- c) a suitable replacement site or infrastructure has otherwise been identified and permitted.

6.3.4 Policy 3 (*Strategic Site Allocations*) identifies proposals for waste management development at Rivenhall IWMF as a suitable site for biological and residual non-hazardous waste management.

- 6.3.5 Policy 10 (*Development Management Criteria*) seeks to ensure that development would not have an unacceptable impact (including cumulative impact in combination with other existing or permitted development) on local amenity; water resources; capacity of existing drainage systems; the best and most versatile agricultural land; farming, horticulture and forestry; aircraft safety; the safety and capacity of the road and other transport networks; the appearance, quality and character of the landscape, countryside and visual environment; the Metropolitan Green Belt; Public Open Space, the definitive Public Rights of Way network and outdoor recreation facilities; land stability; the natural and geological environment; the historic environment; and the character and quality of the area.
- 6.3.6 Policy 11 (*Mitigating and Adapting to Climate Change*) seeks to minimise waste management development proposals potential contribution (through their construction and operation) to climate change by reducing greenhouse gas emissions, incorporating energy and water efficient design measures and being adaptable to future climatic conditions.

6.4 Commentary

- 6.4.1 From a waste perspective ECC broadly agrees in balance with the aims and objectives of the project. However, when ECC as the Minerals and Waste planning authority, considered the in-principle merits of the IWFM when the original application was submitted, it was on the basis of an integrated facility being created with a direct use of heat and steam, which delivered sustainable development.
- 6.4.2 At this time and without the necessary justification from the applicant, we consider that the IWFM as permitted may not be built and operated on site, with the development now focussing on the Energy from Waste (EfW) facility.
- 6.4.3 In terms of BDC's policies, in principle there is no conflict with the proposed development. However, the development should not come forward at any environmental cost. The impact of the proposal must be fully assessed in order to complete a full, fair and detailed planning balance assessment and provide

mitigation to minimise environmental impact and provide a project legacy going forward.

6.4.4 In terms of wider context, BDC declared a climate emergency in 2019 and committed to reducing its own carbon emissions to zero by 2030 and supporting the wider district to do the same by 2030. BDC subsequently produced a new climate change strategy in 2021, contained within which is a general ambition to increase the generation of renewable energy in the district. Taking that into account, in general terms, the BDC encourages the generation of appropriate green energy infrastructure in the District aligning with the national net zero target.

6.4.5 For ECC The Essex Climate Action Commission was set up to advise us about tackling climate change. It was launched in May 2020 for an initial term of two years and has since been extended for a further three years. The commission will run until 2025. The initial purpose of the Essex Climate Action Commission was to set out recommendations on tackling the climate crisis. This included devising a roadmap to get Essex to net zero by 2050.

7 Climate Change

7.1 Local Policy

- 7.1.1 The Scheme has been assessed against current and emerging Local Policy documents of the relevant local authorities in Essex. Section 5 of application Document 7.1 (Planning Statement) (APP-047) sets out the environmental legislation and policy. Within the same document Section 6 covers Local Planning Policy with reference to Essex County Council policy and Braintree Local Plan policy in Table 5.
- 7.1.2 Additional policy documents provide local policy on key topics of relevance to this development. For example, ECC’s scoping comments highlighted the work of the Essex Climate Action Commission (ECAC) and its emerging Report “Net Zero: Making Essex Carbon Neutral” which was published in July 2021. In addition, the ECC Climate Action Plan has been published (November 2022) and sets out the immediate actions being taken by ECC in response to the ECAC report.
- 7.1.3 Since the writing of the Environmental Statement, ECC has consulted on the Draft Waste Strategy for Essex 2024-2054. The findings of the consultation will inform the final Waste Strategy for Essex to be published later in 2024. The Strategy aims to support the move to a circular economy, championing the effective adoption of the legal framework, the waste hierarchy. This aligns with the Governments Environmental Improvement Plan 2023 - Goal 5: Maximise our resources, minimise our waste. To lessen environmental impacts and reduce emissions, waste should be pushed as high up the waste hierarchy.
- 7.1.4 The draft waste strategy makes reference to the ‘Recovery’ phase of the hierarchy for EfW. It acknowledges that the use of EfW to treat residual waste will be required. It states that “facilities need to be correctly and flexibly sized, efficient and designed with emerging technologies in mind, to ensure we further reduce greenhouse gas emissions (GHG) and improve efficiency in the future.” The strategy outlines the aim to capture and use heat from Energy from Waste (EfW) facilities to improve the efficiency of treatment facilities for residual waste,

whilst continuing to explore new technologies to improve the efficiency of treatment facilities, such as carbon capture, utilisation and storage.

7.2 Local Issues

- 7.2.1 This section of the LiR will assess the approach taken by the applicant in relation to the elements scoped in relating to climate change and greenhouse gases following the PINS EIA Scoping Opinion dated 6 June 2023.
- 7.2.2 The proposed facility is envisioned to be of a regional scale, assumed to be sourcing waste from the County of Essex and the East of England. Planning for climate change and minimising Greenhouse Gas (GHG) emissions should be key considerations in any decision.
- 7.2.3 Whilst this is a report covering local impacts, and climate change will inevitably have a local effect, the absolute focus must be on the overall impact of the scheme as a contributor to overall climate change. The total GHG emissions from the proposed plant are likely to be very large. Although the receptor for GHG emissions is the global climate, the impacts of climate change are severe and will certainly be felt locally as well as globally.
- 7.2.4 Indeed, climate change is already happening; global and UK average land temperatures have risen by around 1.2°C since the 1850-1900 period, with 2023 being declared the warmest year on record at 1.45 ± 0.12 °C above the pre-industrial average¹. This is not an anomaly. The past nine years, 2015–2023, were the nine warmest years on record. UK sea levels have risen by 16cm since 1900, and episodes of extreme heat are becoming more frequent. The extent of further climate change will depend on future emissions of GHGs.
- 7.2.5 Waste sector emissions, now including energy-from-waste (EfW) plants, accounted for 6% of UK GHG emissions in 2018 and were 63% below 1990 levels. Emissions have fallen significantly over the past two decades, due to reductions in waste being landfilled, although have not improved in the past few

¹ State of the Global Climate 2023 - <https://library.wmo.int/idurl/4/68835> - Published 2024

years due to a plateau in UK recycling and significant growth in fossil emissions from EfW plants².

- 7.2.6 EfW is a major source of waste management emissions, second only to landfill, however it generates lower emissions per tonne of waste³. It is widely acknowledged that energy from waste is a key mechanism to deliver a net zero waste sector in line with national Net Zero targets aligning with the Climate Change Act 2008 and the subsequent Carbon Budgets setting the path to Net Zero by 2050.
- 7.2.7 Whilst the provision of Energy from Waste facilities on a national scale is growing, the attempts to mitigate the emissions arising from the incineration of waste has not been tackled. We must ensure that our infrastructure with the biggest potential to support environmental enhancement needs to deliver as much environmental improvement as possible both when commencing new projects and when operating, maintaining and renewing infrastructure.
- 7.2.8 Carbon Dioxide is the single most important anthropogenic greenhouse gas in the atmosphere and accounts for approximately 78% of the radiative forcing effects by Greenhouse Gases. The Rivenhall IWMF is a direct contributor to the CO₂ emissions through its scope 1 emissions associated with the incineration of waste and as such, must strive align with the opportunity to reduce emissions as far as practicable in the face of Climate Change.

7.3 Greenhouse Gas Emissions

- 7.3.1 Broadly, the assessment methodology and approach set out in the Environmental Statement is satisfactory for the uplift in energy output for the scheme, however, following assessment of the information provided in relation to the greenhouse gas emissions (GHG) for the updated application and reflecting on the information provided in previous applications for the

² <https://www.theccc.org.uk/wp-content/uploads/2020/12/Sector-summary-Waste.pdf>

³ [Statistics on carbon emissions Waste Households England v8 2018.pdf](#)

development, I believe the applicant has at no point provided a suitable and robust greenhouse gas assessment which accurately reflects the emissions of the Rivenhall IWMF facility. The detailed breakdown of the carbon emission data for the construction, in operation and decommissioning phases has not been provided. This should be sought to ensure clarity and transparency of the project emissions, and to ensure satisfactory GHG performance alignment with the reductions to be sought via the relevant key climate change budgets.

- 7.3.2 ECC believes that the target of achieving net zero by 2050 on a County level in Essex is an important local aim and a key component of the legally binding UK net zero target for 2050. The impact of the proposed scheme on emissions within the county and potential impact on the target for Essex to be net zero by 2050 should be included in the assessment and the importance of reducing the impact of the proposed scheme to as close to 'net zero' as possible should be acknowledged.
- 7.3.3 Estimated CO₂ emissions within Essex in 2021 totalled 6,619 kilo-tonnes (kt)⁴, representing approximately 21% of the total estimated CO₂ emissions within the East of England and 2.5% of the total estimated CO₂ emissions within England.
- 7.3.4 ECC does not believe that the methodology adopted, comparing the emissions related to a theoretical 'alternative' site and utilising that as a demonstration of the carbon saved, is the most suitable methodology to provide a true reflection of the significant emissions associated with this development. The chosen methodology does not accurately reflect the predicted emissions of the Rivenhall IWMF facility; therefore, the significance of the emissions has not been suitably compared to the relative emissions as per the IEMA methodology. The whole lifecycle carbon emissions for the development should be benchmarked at a local level for Essex against the figures in 7.1.15.

⁴ <https://www.gov.uk/government/statistics/uk-local-authority-and-regional-greenhouse-gas-emissions-national-statistics-2005-to-2021>

- 7.3.5 The energy from waste sector has been detailed as a key opportunity for net zero management of our waste, and production of energy, and without whole lifecycle carbon information being presented as part of the ES, it is impossible to understand what actual impacts and contributions the facility will make towards climate change.
- 7.3.6 The IEMA guide outlined as the key methodology guidance to be followed is predicated on all assessments being proportional to the scientific evidence available, whereby a focus on proportionate assessment is important in avoiding undue burden.
- 7.3.7 It must not be underestimated that the facility, through improving the efficiency of the machinery on the site, demonstrates that more energy can be provided without increasing the direct carbon emissions in operation. The change in output, has been predicted to provide a “net benefit over a period of 25 years of operation of between 132,082 to 238,983 tonnes of carbon dioxide equivalent (tCO₂e)”.
- 7.3.8 The significance as demonstrated should not solely be demonstrated by the theoretical comparison of GHG emissions but whether it contributes to reducing GHG emissions relative to a comparable baseline consistent with a trajectory towards net zero by 2050. However, it is not clear how the proposed development, as it stands, could be consistent with a trajectory towards net zero by 2050 or a 1.5 degrees warming scenario.
- 7.3.9 It is important to understand the impact of the scheme on the County net zero target. ECC therefore request that the greenhouse gas impact of the scheme through the demolition and construction, in operation, and decommissioning phases are accurately predicted, with suitable methods of mitigation of the emissions proposed, with this to be put forward to the inspectorate to be able to make a well evidenced and robust decision on the significance of the proposals. We propose a methodology is adopted similar to the assessment undertaken on behalf of the recently assessed Medworth Energy from Waste Combined Heat and Power Facility (PINS ref. EN010110, Document Reference: Vol 6.2) as this provides a closer reflection of the overall scheme

presented in relation to the Rivenhall IWMF following the recently proposed development changes, than the precedent suggested as part of the EIA Scoping Report (s6.2.6) of the Slough Multifuel Extension.

- 7.3.10 Whilst the similarities between the two projects (Rivenhall IWMF and Slough Multifuel) relate to the planning submissions relating to the expansion of the output of additional energy, it cannot be assumed that it is the most appropriate comparison to the Rivenhall IWMF facility. Primarily, the consented schemes are not materially similar. The Slough multifuel project presents as an energy from waste facility that utilises Combined Heat and Power, and the Rivenhall IWMF consented scheme offers a diverse waste management arrangement, that extends beyond simply energy from waste. Whilst the change in the proposed development for the IWMF will effectively result in a larger focus on the EfW operations, this does not demonstrate that the Slough multifuel extension application is a like for like methodology to follow, as this project demands far more scrutiny in its apparent change of use.
- 7.3.11 To reduce the impact of the proposed scheme, provision should be made for the reduction of greenhouse gas emissions (GHG), in both construction and operational phases, in order to minimise the development's carbon footprint and mitigate the effects of climate change. Only once all avenues of reduction have been explored should offsetting be utilised. Opportunities for the scheme to implement the recommendations set out in the ECAC Report (2021) should be taken too.
- 7.3.12 Updated reporting standards and the availability of detailed design and on-site data due to the facility being under construction would suggest that significant and accurate embodied carbon emissions data related to the demolition and construction impacts of the site, would be available and should have been presented to the local authority to the IEMA guidance.
- 7.3.13 Furthermore, modelling information for the operational carbon emissions should have been put forward by the applicant to reflect the likely emissions to be seen from the site as a direct cause of the operation of the facility.

7.3.14 Information should also be available to the applicant to present to the local authority in relation to any proposed carbon emissions likely to be related to any decommissioning of the facility following the end of life of the facility.

7.4 Climate Change Mitigation Measures

Carbon Capture Utilisation and Storage (CCUS)

7.4.1 Carbon Capture Utilisation and Storage (CCUS) has been identified as the most suitable approach to mitigate the emissions associated with the direct combustion of waste at Energy from Waste Facilities and one evidenced as a cost-effective method of mitigation competitive with other industry abatement options⁵. The opportunity to directly intercept the flue gases which otherwise are emitted into the atmosphere must be considered for this project.

7.4.2 The mitigation of the emissions relating to this scheme and the standards that will be adopted are relevant to both interim and longer term (2050) national targets. IEMA guidance instructs the need to ensure that the proposal of carbon mitigation measures for a project should extend even beyond consent being granted for a project. The necessity for a route to net zero through decarbonisation is clear, and for EfW, this requires a “credible plan” for carbon capture and storage. A definition of credible plans for carbon capture and storage is set out in the government’s recent [decarbonisation readiness consultation](#) published by the Department for Energy Security and Net Zero (2022). Government has already set out its ambition of capturing and storing up to 10 Mt of CO₂ per year by 2030 as part of its [CCUS Supply Chains Roadmap](#). Significantly, The CCC Sixth Carbon Budget (see footnote 3) provides scenarios in which the emissions from waste decrease by up to 80% by 2050. To achieve this, the CCC suggests the following policy that Carbon Capture and Storage be already fitted in all energy from waste plants by 2050.

⁵ [Energy from Waste Plants UK with Carbon Capture - Energy Systems Catapult](#)

To achieve this, the CCC suggests the following policy that Carbon Capture and Storage be fitted in all energy from waste plants by 2050.

- 7.4.3 The [National Infrastructure Assessment 2023](#) suggests all new plants need to be carbon capture ready to hit net zero, and the Commission's analysis suggests that there is already sufficient operating capacity in place and in the pipeline to avoid the need for new energy from waste which isn't carbon capture ready, identifying that "The creation of new energy from waste capacity without carbon capture would be both unnecessary and harmful."
- 7.4.4 Developments within the EfW sector in relation to Carbon Capture technology is already happening, with the country's largest EfW plant in Runcorn recently announcing a significant mitigation capability through Carbon Capture at its facility, a significant milestone for decarbonisation of the waste sector with aims to capture over 900,000 tonnes of CO₂ each year and playing a vital role in the regional decarbonisation strategy. We must insist on the same standard of infrastructure delivery in Essex, to align with the county's net zero ambitions.
- Embodied Carbon Emissions (Construction)
- 7.4.5 It is acknowledged that the applicant's position in relation to the delivery of the proposals as previously determined is as follows:

"The DCO has been drafted so that the construction and operation of the IWMF will continue to be subject to the conditions and requirements attached to the Planning Permission."

- 7.4.6 Whilst the project is under construction to develop the consented scheme, opportunities to further mitigate against construction processes must still be actively pursued to ensure the embodied carbon footprint of the project is as low as feasibly practicable. It is acknowledged a Construction Environmental Management Plan (CEMP) has been produced and is being followed by the contractor, however this must be considered a first instance for opportunities to reduce carbon emissions associated with the construction of the facility. Consideration should be given to minimising use of high-carbon materials such as concrete, steel etc, and use of low carbon construction methods and materials, such as more use of recycled/reclaimed materials, electrical

plant/tools, and locally sourced items. Checks should also need to be made, prior to construction, that the final design either matches or improves on the bill of materials used for estimating emissions from construction. The emissions from construction transport should aim to be updated when the supplier locations and transport distances of materials are known.

Operational Energy and Carbon (In Operation)

- 7.4.7 Due to the nature of EfW and the heterogenous (of different origin) nature of the fuel provided through residual waste, and the potential inconsistency of waste volumes through improved recycling rates, multiple scenarios should be presented to reflect the variability in the calorific content, biogenic matter and volume of waste available in relation to the carbon emissions for the proposed development.
- 7.4.8 Furthermore, the applicant must consider the environmental impacts of incineration of matter that may be suitable for recovery, recycling or reuse that may make its way to the IWMF facility.
- 7.4.9 The NPPF encourages the transition to a low carbon future within a changing climate and for development to take a 'proactive approach to mitigating and adapting to climate change'. ECC in association with the Essex Planning Officers Association have released the Planning Policy Position for Net Zero in Operation Policy published November 2023, [found here](#). The evidence base is available on the [Essex Design Guide Website | Net Zero Evidence](#) webpage. To complement this evidence, [practical design advice](#) is provided (and being added to) on the Essex Design Guide which focuses on how to design developments (of all scales and types) to meet the net zero carbon and energy standards, mitigate potential overheating risk and to address other inter-related sustainability issues. It defines that all new buildings must be designed and built to be Net Zero Carbon in operation. They must be ultra-low energy buildings, fossil fuel free, and generate renewable energy on-site to at least match annual energy use. Whilst the IWMF plans to utilise energy generated through the EfW facility, the opportunity to provide the energy required to meet the operational

needs of the facility through means of alternative methods such as Solar PV should be considered. This will both ensure that the facilities energy needs can be met, whilst maximising the output of energy to the grid. It is acknowledged that the existing consent allows for a green roof, however, we believe all opportunities for mitigation should be considered and where possible maximised, even at this stage.

Water Usage

7.4.10 Water demand and usage has been determined to be unchanged from the Consented Scheme. Water is required by the IWMF to operate a number of operational elements, most significantly, the boilers to produce steam for the turbines in order to generate energy.

7.4.11 Essex is classified as a seriously water-stressed area. Our water companies predict that by 2050 we will only have 66% of the water we need available. If we do not take action to use less water and create more sources of water supply, supply shortages and restrictions will be a reality. The new Water Strategy for Essex published in March 2024 and the Regional Water Resources Plan for Eastern England was published in December 2023.

7.4.12 ECC recommends that any opportunities to reduce water usage for the project should be explored and presented, both for current and future operation of the facility.

7.5 Summary

7.5.1 The chosen greenhouse gas emissions (GHG) methodology does not accurately nor robustly reflect the predicted emissions of the Rivenhall IWMF facility. It is important to understand the direct impact of the scheme on the County net zero target. ECC therefore request that the greenhouse gas impact of the scheme through the demolition and construction, in operation, and decommissioning phases are accurately predicted, with suitable methods of mitigation of the emissions proposed, with this to be put forward to the inspectorate to be able to make a well evidenced and robust decision on the significance of the proposals. As part of the assessment multiple scenarios

should be presented to reflect the variability in the calorific content, biogenic matter and volume of waste available in future operating conditions. It is important to note that without robust and detailed whole lifecycle carbon emissions information being presented as part of the ES, it is impossible to understand what actual impacts and contributions the facility will make towards contributing to climate change.

7.5.2 The impact of the proposed scheme on emissions within the county and potential impact on the target for Essex to be net zero by 2050 should be included in the assessment and the importance of reducing the impact of the proposed scheme to 'net zero by 2050' as possible should be acknowledged.

7.5.3 A credible emission mitigation plans detailing the decarbonisation of the facility in line with the carbon reductions required to meet net zero by 2050 has not been provided by the applicant. The necessity for a route to net zero through decarbonisation is clear, and for EfW, this requires a "credible plan" for carbon capture and storage to ensure alignment of the decarbonisation of the facilities emissions with national carbon budgets is achieved.

8 Noise and Vibration

8.1 National Policy

8.1.1 Paragraph 5.12.15 of NPS EN-1 states that a project should demonstrate good design through selection of the quietest or most acceptable cost-effective plant available; containment of noise within buildings wherever possible; optimisation of plant layout to minimise noise emissions; and, where possible, the use of landscaping, bunds or noise barriers to reduce noise transmission. Paragraph 5.12.17 of NPS EN-1 states a number of additional considerations for the IPC to consider, including avoiding significant adverse impacts on health and quality of life from noise.

8.1.2 Paragraph 180 of the NPPF states that planning policies and decisions should contribute to and enhance the natural and local environment by: *e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans.*”

8.2 Local BDC Development Plan Policies

8.2.1 Policy SP7 (*Place Shaping Principles*) of the Adopted Local Plan requires all new development to protect the amenity of existing and future residents with regard to inter alia noise and vibration.

8.2.2 Policy LPP70 (*Protecting and Enhancing Natural Resources, Minimising Pollution and Safeguarding from Hazards*) of the Adopted Local Plan addresses emissions and pollution. It states that new development should prevent unacceptable risk from all emissions and other forms of pollution including noise pollution. Development will not be permitted where cumulatively or individually (after mitigation) there are likely to be unacceptable impacts to the general amenity and tranquillity of the wider rural area.

8.3 Key Local Context

8.3.1 Site History and Existing Consent Conditions

Current site use	Consent for IWMF generating less than 49.9MW granted in 2016. Excavation and enabling works underway in April 2023.	
Consent number	ESS/34/15/BTE	
Consent date	26 February 2016	
	Condition Number	Summary
Temporary operations	42	Noise limit of 70dB LAeq 1hr for up to 8 weeks in any 12-month period. Temporary operations shall include site preparation, bund formation and removal, site stripping and restoration, or as agreed with the WPA.
Normal operations	38	<p>Freefield daytime (0700-1900hrs) LAeq 1hr noise limits (dB):</p> <ul style="list-style-type: none"> • Herron's Farm 45 • Deeks Cottage 45 • Haywards 45 • Allshot's Farm 47 • The Lodge 49 • Sheepcotes Farm 45 • Greenpastures Bungalow 45 • Goslings Cottage 47 • Goslings Farm 47 • Goslings Barn 47 • Bumby Hall 45 • Parkgate Farm Cottages 45 <p>It should be noted, that with the exception of the last two locations, these noise limits mirror those within the consent for normal mineral extraction operations at Bradwell Quarry (ESS/12/20/BTE).</p>

	39	Freefield evening (1900-2300hrs) noise limit of 42 dB LAeq 1hr at all noise sensitive properties.
	40	Freefield night-time (2300-0700hrs) noise limit of 40 dB LAeq 5 min at 1m from the façade facing the site of all noise sensitive properties.
Monitoring requirements	41	Quarterly noise monitoring at up to 5 locations to be agreed with WPA. 2 No. 15 min daytime (0700-1830hrs) periods, and 2 No. evening/night-time (1830-0700hrs) periods.
Operational hours	34	Mineral Extraction: 0700-1830 hrs weekday 0700-1300 hrs Saturday
	35	Construction of IWWMF: 0700-1900 hrs Monday to Sunday, but not Bank Holidays.
	36	Importation and export of materials during IWWMF operation: 0700-1830 hrs weekdays 0700-1300 hrs Saturdays 1000-1600 hrs Sundays and Bank Holidays as required by WDA and agreed with WPA.
HGV movements	3	Limits for IWWMF operations: 404 HGV movements per weekday. 202 movements on Saturdays. Sundays and Bank holidays as agreed by WDA and WPA. Bradwell Quarry is subject to separate HGV movements limits under planning permission ESS/12/20/BTE.

		590 movements per day Monday to Friday 294 movements per day Saturdays With average daily HGV movements, no greater than 458 movements a day (Monday to Friday) when averaged over the calendar year (1 January to 31 December).
	4	Limits for IWMF construction: 404 HGV movements Monday to Sunday
Other noise related conditions	19	Process layout and configuration details to be agreed by WPA.
	69	Noise assessment to be updated once layout and configuration agreed under C19. Compliance with C38 to be demonstrated and agreed by WPA.
Historic site uses	WWII airfield and Bradwell Quarry	

8.3.2 The original consent ESS/34/15/BTE has been subject to a number of applications for discharges of conditions and non-material amendments including:

- NMA6 – changes to working hours May-December 2023 to allow concrete pours. Noise mitigation considered.

8.3.3 No submissions have been identified from the Essex County Council's (ECC) planning portal website regarding C41 (Noise monitoring), C19 (process layout details) or C69 (updated noise assessment).

Noise/Vibration Sensitive Receptors

8.3.4 From an examination of the application information submitted and publicly available Ordnance Survey mapping and aerial photography (www.maps.google.com, www.bing.com/maps, www.magic.gov.uk), potential noise sensitive receptors (NSR) may include (but not be limited to):

Receptor	Approximate Distance from site	Direction	Comments
Residential (including hotels etc)	425m	East	The Lodge, Woodhouse Lane (as per Scoping Report 8.5.7) (
	660m	West	Sheepcotes Farm (as per Scoping Report 8.5.7)
	745m	North	Heron's Farm, Cut Hedge Lane (as per Scoping Report 8.5.7).
	750m	West	Brick House (as per Scoping report 2.1.9)
	1km	Northwest	Gosling's Farm, Sheepcotes Lane (as per Scoping Report 8.5.7)
	1km	South and southwest	Jewitt Way, Silver End – ECC response to scoping report identifies these new receptors under construction and some occupation. Silver End and Park Gate Road identified by Braintree District Council response to Scoping Report.
	No other residential properties within 1km according to Scoping report 2.1.9.		
Schools			
Hospitals/Healthcare			
Offices/commercial property	400m	Southeast	Industrial estate at Allshots Farm.

Receptor	Approximate Distance from site	Direction	Comments
Community facilities (including Places of Worship)	-	-	-
Ecologically designated sites	290m	South	Storey's Wood Local Wildlife Site (Scoping Opinion requires its consideration).
	900m	Southeast	Upney Wood (Scoping Opinion requires its consideration).
	Note that although ecological effects have been agreed by the Scoping Opinion as scoped out, it does require these to be considered as potential receptors for noise and justification be provided for their exclusion.		
Heritage assets	Archaeological and cultural heritage agreed by Scoping Opinion as scoped out.		

8.4 Local Impact of Development

Comments on Environmental Statement

8.4.1 Chapter 8 of the Environmental Statement (ES) (APP-033) relates to noise and vibration. Below, comments are provided on relevant chapter sections in the order they are contained within the ES. Where relevant, reference is made to the previous comments Jacobs provided within the document 'Preliminary Environmental Information Report – Noise Response' dated 9th August 2023 (available as Appendix 1 within the Essex County Council 'Relevant Representation' document).

8.4.2 The PEIR contained reference to BS 4142:2014+A1:2019 within section '8.2 Legislation, Planning Policy and Guidance' of the ES, which is considered appropriate given the nature of the application, i.e., the potential noise effects from an industrial facility on residential receptors. Albeit it previously highlighted

that no further consideration is made within the chapter to this Standard. The ES has removed any reference to this Standard. Further comments are provided below on this matter.

- 8.4.3 Under Section 8.3 Consultation, Table 8.1 (EIA Scoping Summary Response) of the ES, summarises “key comments raised by consultees of relevance to this assessment during the EIA Scoping study and how the assessment responded to them.” The responses provided to comments raised by the Planning Inspectorate (PINS) and BDC are similar to those provided in the PEIR. ECC list below the pertinent comments that we previously highlighted as requiring clarification:
- 8.4.4 The Planning Inspector’s question relating to whether there will be an increase in turbine rotations and the consequential effect in terms of noise and vibration. The updated response within the ES states: *“It has been considered that the increased volume of steam sent to the turbine will have no effect on the noise output from the Proposed Development (see Chapter 3: Proposed Development and Construction for further details). The only change to the Energy from Waste (EfW) plant which was assessed for the Consented Scheme is in relation to the inlet control valves. This will allow it to run at greater efficiency to generate a greater output, with no additional inputs required. As such, the potential for noise and vibration effects at sensitive receptors due to the increase in steam to the turbine is not considered further within this ES chapter.”* We will presume that the relevant consultees are satisfied with the engineering element of this response.
- 8.4.5 BDC’s comment relating to source data. The updated response provided within the ES states: “Octave band sound power levels and locations for proposed plant have been provided by the EPC contractor. The data has been analysed and is considered to suitably represent noise levels associated with the proposed plant for the Proposed Development. Therefore, given the suitable nature of the data provided, Method 2 has been utilised for the purposes of this assessment.”

- 8.4.6 We previously stated: “It would be expected that sufficient details be provided within the ES to demonstrate that the source noise data is robust, including details of how the data was obtained (i.e., measurement methodology, test certifications, etc) and under what operating conditions (e.g., operating under full load).” As noted later in these comments, it is not considered that sufficient information has been provided at this time to determine the veracity of the noise level predictions presented within the ES.
- 8.4.7 BDC’s comment that an updated survey is undertaken to identify thresholds and that background sound levels obtained from these should be compared to rating levels from the facility. The updated response provided within the ES states: *“In terms of the proposed assessment methodology and thresholds used, the assessment presented within this Chapter remains in-line with the methodology used for the Consented Scheme and has been agreed with the Inspectorate. Therefore, the noise limits used as part of this assessment will remain consistent with the Consented Scheme and updated survey data has not been used to inform this assessment.”*
- 8.4.8 This is a key aspect of this application, i.e., whether the noise limits set with the Consented Scheme remain relevant. This aspect is discussed further, later in these comments. In addition, as highlighted in ECC’s previous comments, we cannot locate within the Scoping Opinion, or elsewhere, to the effect that the Inspectorate has agreed with the methodology. ECC would again reiterate reference to 1.0.11 of the Scoping Opinion which states, *“This Opinion should not be construed as implying that the Inspectorate agrees with the information or comments provided by the Applicant in their request for an opinion from the Inspectorate”*.
- 8.4.9 Table 8.1 in APP-033 now includes EIA Scoping comments provided by ECC (May 2023) and provides responses to these, as follows:
- 8.4.10 ECC commented “It is therefore considered that rather than assessing whether the proposed changes would still enable the development to operate in compliance with the planning conditions of the IWMP planning permission, the EIA should undertake a new noise impact assessment to show the IWMP as

proposed to be changed, when combined with the cumulative impacts from other development namely operations at Bradwell Quarry, would be compliant with current noise guidance, particularly BS4142:2014+A1:2019. And if necessary, propose noise mitigation to ensure compliance with the new guidance. Should a DCO be granted, it may require revised noise conditions to meet the requirements of the current guidance. For information there are no specific noise limits set within the Environmental Permit issued by the Environment Agency.”

8.4.11 The ES responds with “The assessment for the DCO relates to the increased output from the Proposed Development and it has been confirmed that the proposed plant for the EfW remains the same as the Consented Scheme. A cumulative assessment alongside operations from Bradwell Quarry has been undertaken.” As such, the response does not directly answer the comments from ECC relating to the assessment approach. Instead, it infers a similar response to BDC as highlighted above.

PEIR Consultation

8.4.12 Table 8.2 of the ES at APP-033 provides responses to particular comments provided by Jacobs in their document ‘Preliminary Environmental Information Report – Noise Response’, dated 9th August 2023. Relevant responses can be summarised as following:

8.4.13 We requested justification for the use of historic noise measurements to support the basis of the impacts assessment and subsequent noise limits set on the site. The ES states that no further baseline noise monitoring has been undertaken. The justification provided: *“Given that there are noise limits associated with the Consented Scheme, the assessment would not be based on measured baseline sound levels at the receptors. Therefore, the relevance of the 2005 measurements is minimal and as such it was not considered necessary to use updated baseline survey data for the purposes of this updated assessment.”* As such, similar to the previous responses to ECC and BDC, the ES relies on the existing noise limits set on the consented scheme.

8.4.14 We advised the use of BS 4142:2014+A1:2019 as the basis for the noise assessment and for the derivation of suitable noise limits. The ES states that such an assessment is not proposed. Again, stating the noise limits contained within the exiting consent would form the basis of the assessment, i.e. *“Therefore, the potential effects of the DCO have been assessed in-line with the consented noise limits, as these are the limits to which the IWFM would be operated in the absence of the Proposed Development.”*

8.4.15 Section 8.4 Assessment Methodology, in Chapter 8 of the ES (APP-033) is largely a replication of the PEIR. Therefore, we would refer to our comments within the document ‘Preliminary Environmental Information Report – Noise Response’, dated 9th August 2023 for this section. These are summarised as follows:

- We sought further justification to demonstrate that the baseline data used for the basis of the assessment remain valid.
- We questioned the apparent assumption that the Consented Scheme formed part of the baseline scenario.
- We questioned the use of noise limits set with the Consented Scheme and referenced BS 4142:2014+A1:2019 as the appropriate assessment guidance when considering the noise effects of industrial facilities on residential premises.
- We highlighted relevant sections of the Planning Inspectorate’s (PINS) decision where reference was made to BS 4142:2014+A1:2019 in considering potential impacts. However, we highlighted that historic noise limits associated with the mineral working were retained, in our opinion inappropriately, for the purposes of the IWFM consent.
- We highlighted the requirement for sufficient details be provided within the ES to demonstrate that the source noise data is robust. In addition, we expressed that it would be expected that noise model files would be made available.

- Notwithstanding comments relating to the validity of continuing with the Consented Scheme noise limits, we stated that we would not agree with an assessment approach which infers an exceedance of these noise limits as potentially acceptable.
- We advised that no justification was provided on why night-time is deemed as more sensitive when compared to daytime.

8.4.16 New additional information provided in the Assessment Methodology section of the ES is highlighted below:

8.4.17 Under 'Establishing Baseline Scenarios', paragraph 8.4.12 (APP-033) has been expanded to include the statement "As stated below, the Proposed Development would be carried out in the context of the Consented Scheme which is subject to existing daytime, evening and night-time noise limits. The EIA Scoping Opinion from the Planning Inspectorate (PINS) was in agreement that the existing noise limits should be used for this assessment. The proposed methodology to be followed within this ES chapter is to ensure that the Proposed Development meets the existing noise limits." As identified above, we are unable to locate reference to such agreement with PINS on this matter.

8.4.18 Under 'Identifying Likely Significant Effects', our previous comments stated that "...it would be expected that sufficient details be provided within the ES to demonstrate that the source noise data is robust. It would also be expected that sufficient information be provided to allow third parties (e.g., BDC and ECCs Acoustic advisers) to verify the predictions provided. Furthermore, as part of any review by third parties, it would be expected that noise model files would be made available." 8.4.20 of the ES states "The predicted noise levels provided by HZI, who are the Engineering, Procurement and Construction (EPC) contractor for the Proposed Development, were used and are based on the exact specification of the plant." We would refer to our comments below ('8.6 Assessment of Operational Effects') on this matter, i.e., the requirement for further information to enable third party verification of the noise level predictions presented in the ES.

8.4.19 With section 8.5 Baseline Conditions, of Chapter 8 of the ES, Under 'Future Baseline Scenario' we previously commented "... the ES should take account of the Dry Silo Mortar plant that is consented for the site and operates during the evening and a proportion of the night-time periods." The presence of the Dry Silo Mortar plant is not considered further in the ES noise assessment, either as part of the baseline consideration or through the cumulative impact assessment. See our comments below in 'Cumulative Effects' for further commentary on this.

8.4.20 Commentary is provided in this section reiterating the assessment approach whereby noise limits are based on the previously Consented Scheme.

8.4.21 Paragraph 8.6.2, within section 8.6 Assessment of Operational Effects, of the ES presents a number of noise modelling parameters and assumptions. In addition, ES Appendix 8.2 'Noise Model Input Data Provided by EPC Contractor', (APP-045) provides a single table of the IW MF plant items with associated noise level data. To enable this data to be suitably considered, greater detail should be contained as highlighted in our comments provided in document 'Preliminary Environmental Information Report – Noise Response' - *"It would be expected that sufficient details be provided within the ES to demonstrate that the source noise data is robust, including details of how the data was obtained (i.e. measurement methodology, test certifications, etc) and under what operating conditions (e.g. operating under full load)."* The information provided in the ES does not contain such information; therefore, we are unable to comment on the veracity of this source data.

8.4.22 In addition, the provision of a key with the table, detailing the components contained within the 'Name' and 'Type' column would be expected. Furthermore, and notwithstanding the above, we would query and seek clarification on, some of the data contained within the table:

- The noise data for '006 ADV Boiler 1', '007 ADV Boiler 2', '008 Start up ejector ST', and '009 Hogger ST' are identical. Are these the same plant items?

- There are 7 different noise levels provided for the 'Tipping Hall' (058, 059, 113, 127-130). What do these represent and how are these used within the noise model?
- There are 10 different noise levels provided for the 'Boiler building' (55, 56, 94-96, 114-118). What do these represent and how are these used within the noise model?
- There are 10 different noise levels provided for the 'Turbine building' (57, 97, 98, 124-126). What do these represent and how are these used within the noise model?

8.4.23 Notwithstanding the above, as identified within our document 'Preliminary Environmental Information Report – Noise Response', we would wish to view the noise model files to be satisfied of the veracity of the predictions presented.

Impact Assessment

8.4.24 Tables 8.11 to 8.13 of the ES (APP-033) present the predicted noise levels at the relevant sensitive receptors for the day, evening and night-time periods. The assessment concludes that predicted noise levels at all receptors would remain below the consented noise level limits. However, as per our comments with document 'Preliminary Environmental Information Report – Noise Response' dated 9th August 2023, we maintain our concerns with regard to the assessment approach pursued.

8.4.25 Firstly, as identified in our previous comments, we consider that the noise limits determined in the consent were not suitable, with our previous comments stating:

8.4.26 "It is noted that the 2009 PINS decision makes reference to BS 4142 (note this would be the 1997 version of the Standard) in considering the potential impact from noise, with no specific reference appearing to other guidance or Standards. Para 13.69 of the decision states: "... *The assessment of operational noise level at all receptor locations for both day and nighttime periods shows that noise levels of operations would be below the level of 'marginal significance' according to British Standard 4142. The physical noise*

levels predicted for daytime operations fall within the range of 22 to 34 dB(A), and 22 to 30 dB(A) for nighttime periods. I am satisfied that such levels of noise would not have a material impact on the amenity of local residents.” It is assumed that the Inspector drew this conclusion based on the Golder Associates Noise Impact Assessment (NIA) submitted with the original application, which stated “...*However, in the absence of other relevant guidance the application of BS 4142 has been applied for the assessment of the noise impact from the proposed eRCF operations.”*

8.4.27 Reference to the predicted noise levels stated above are contained in the Golder Associates NIA. The NIA compares these predictions to “*existing noise limits associated with the existing quarrying operations within Bradwell Quarry*”, noting that these limits were derived with reference to historic minerals guidance (e.g., MPS 2). These existing limits appear to then form the basis of the consented permission for the IWMF. **As such, it would appear that guidance relevant to minerals working has been used for an industrial facility.** Although, the IWMF is cited within a mineral’s development, it is an industrial facility and therefore, the approach taken is questionable.”

8.4.28 Secondly, it shall be noted that should this be a new application, it would be expected that the noise assessment be undertaken in accordance with BS 4142:2014+A1:2019. As stated in section 1 of the Standard “*This British Standard describes methods for rating and assessing sound of an industrial and/or commercial nature...The methods described in this British Standard use outdoor sound levels to assess the likely effects of sound on people who might be inside or outside a dwelling or premises used for residential purposes upon which sound is incident.*” Ultimately, an objective of the planning process is to protect public amenity. As such, it is considered that, irrespective of previous consents, the application should be based on most recent and relevant guidance and standards to demonstrate against this objective. Therefore, it is considered appropriate that the noise assessment for this DCO be undertaken with reference to BS 4142:2014+A1:2019.

8.4.29 A separate planning application is being submitted to amend the IWMF to include a Carbon Capture and Usage and Storage and Heat Off take plant. In a Technical Memorandum dated 2nd April 2024, submitted to ECC by SLR as part of this application, a baseline survey is presented, undertaken between 17th and 23rd May 2023, summarised in Table 1.

Table 1: Noise Survey results – May 2023

Location	Average L_{Aeq, T}	Modal L_{A90}
Herons Farm		
Daytime periods	45 dB	35 dB
Night-time periods	41 dB	32 dB
Gosling Farm		
Daytime periods	49 dB	38 dB
Night-time periods	42 dB	32 dB
Sheepcotes Farm		
Daytime periods	47 dB	36 dB
Night-time periods	38 dB	27 dB
The Lodge		
Daytime periods	46 dB	33 dB
Night-time periods	36 dB	26 dB

8.4.30 It shall be noted that observations presented for the noise survey identify that quarry activities were audible during the surveys. Inferring that, during the day-time period at least, the measured noise levels may have been lower had the quarry not been operating. Notwithstanding this, it is observed that the background sound levels appear lower at each of the survey locations when compared to those undertaken by Golder Associates in 2005. It is not immediately apparent why there is a reduction in noise; however, during the

daytime period, this is potentially related to the change in quarry area that is being worked.

8.4.31 Should this be a new application, an assessment in accordance with BS 4142:2014+A1:2019 would be appropriate. The Standard states that an initial assessment of potential impact shall be based on the comparison of the source Rating Level versus existing background sound level, stating the following:

“a) Typically, the greater this difference, the greater the magnitude of the impact.

b) A difference of around +10 dB or more is likely to be an indication of a significant adverse impact, depending on the context.

c) A difference of around +5 dB is likely to be an indication of an adverse impact, depending on the context.

d) The lower the rating level is relative to the measured background sound level, the less likely it is that the specific sound source will have an adverse impact or a significant adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context.”

8.4.32 BS 4142:2014+A1:2019 identifies that the initial assessment should take consideration of contextual matters. These are summarised as follows:

- **The absolute level of sound.** In particular, the Standard states “Where background sound levels and rating levels are low, absolute levels might be as, or more, relevant than the margin by which the rating level exceeds the background. This is especially true at night.” No further guidance is provided on what would constitute “low” background sound levels and rating levels. However, previous versions of the Standard referenced this to be background sound levels less than 30 dB and rating levels less than 35 dB. It is considered that similar values would not be unreasonable in the

context of BS 4142:2014+A1:2019⁶. Taking the daytime and night-time periods in turn:

Day

- Guidance relating to absolute daytime noise levels is contained in WHO⁷ and BS 8233:2014. Internally, these provide a day-time averaged noise level of 35 dB $L_{Aeq,16hr}$ to enable “Resting” (BS 8233:2014), and “Speech intelligibility and moderate annoyance” (WHO 1999). WHO/BS 8233:2014 present guidance on the likely insulation offered by the building, with a range of 10 to 15 dB(A) provided for an open window. This translates to an external noise level from 45 dB $L_{Aeq, 16hr}$ to 50 dB $L_{Aeq, 16hr}$ to achieve the recommended internal noise level of 35 dB $L_{Aeq, 16hr}$.
- Externally, BS 8233:2014 and WHO provide a noise level of 50 dB for “Moderate annoyance” (WHO 1999) and “desirable” conditions (BS 8233:2014).
- Based on the above and taking a conservative approach to insulation provided by an open window, it is our consideration that an absolute external noise level of 45 dB $L_{Aeq, 16hr}$, subject to other acoustical context, is relevant for residential receptors during the day.

Night

- Guidance relating to relevant absolute night-time noise levels is contained in WHO⁸ and BS 8233:2014. However, it shall be noted that the recommendations within such guidance is primarily focussed on the effect of noise on health, whereas the effect on amenity is arguably more

⁶ This is also an opinion contained with the Acoustics & Noise Consultants ‘BS 4142:2014+A1:2019 Technical Note’, March 2020.

⁷ ‘Guidance for Community Noise’ 1999, ‘Environmental Noise Guidelines for the European Region’ 2018

⁸ ‘Guidance for Community Noise’ 1999, ‘Night Noise Guidelines for Europe’ 2009, ‘Environmental Noise Guidelines for the European Region’ 2018

onerous. For example, at night, the WHO Night-time Noise Guidance (NNG) identifies a Lowest Adverse Observed Effect Level (LOAEL) of 40 dB $L_{\text{night, outside}}$, which relates to sleep disturbance/prevention and health. It is reasonable to expect sources of noise below this level, whilst not resulting in sleep disturbance, to be audible and potentially a source of annoyance. In fact, within the WHO NNG, a noise level of 35 dB $L_{\text{night, outside}}$ is identified as a threshold for where complaints of noise are possible, with a lower threshold of 30 dB $L_{\text{night, outside}}$ as the No Observed Effect Level (NOEL). Between 30 and 40 dB $L_{\text{night, outside}}$, WHO NNG advises *“A number of effects on sleep are observed from this range: body movements, awakening, self-reported sleep disturbance, arousals. The intensity of the effect depends on the nature of the source and the number of events....”*

- In addition, it shall be noted that the guidance noise levels within WHO NNG (e.g., the LOAEL of 40 dB $L_{\text{night, outside}}$) are an average throughout the year, with an assumption of 21 dB for insulation resulting from the façade of a building. This is based on an average assumption, across nationalities, of the percentage of the period throughout the year with windows remaining closed. As such, it can be assumed that this would over-estimate the insulation of a building on a given night when windows are open (i.e. BS 8233:2014 presents a noise level difference, outside to inside, of 10 dB for an open window).
- Based on the above, it is our consideration that an absolute noise level of 35 dB $L_{\text{night, outside}}$, subject to other acoustical context, is relevant for residential receptors at night. This minimises the health effects on receptors, whilst also providing protection to their amenity.
- **The character and level of the source in comparison to the residual sound.** The Standard states “Consider whether it would be beneficial to compare the frequency spectrum and temporal variation of the specific sound with that of the ambient or residual sound to assess the degree to which the specific sound source is likely to be distinguishable and will

represent an incongruous sound by comparison to the acoustic environment that would occur in the absence of the specific sound.” On this point, it is arguable that during the day, the character of the area is currently associated with commercial noise, i.e. that from the working of the quarry; although, the nature of the source would vary. However, it shall be noted that the quarry working is finite, and in time this would no longer be relevant as a residual noise source. In addition, for the majority of the night-time period (with the exception of 06:00 to 07:00 hours when the DSM can operate), there are no such sources of noise; therefore, the introduction of the IWMF would be a variation to the soundscape.

- Sensitivity of the receptor.

8.4.33 In considering the above, based on the updated background sound level measurements provided within the SLR Technical Memorandum, we would initially anticipate the limits within Table 2 be relevant for those receptors identified above.

8.4.34 The red figures in Table 2 indicate where the ES currently predicts an exceedance of the initially anticipated noise limits. The figures in parenthesis are the predicted specific noise levels contained within the ES. It shall be noted that the ES predicted levels are not Rating Levels, i.e. they do not contain any potential corrections applied for character (e.g. tonality, impulsivity, and/or intermittency) as required by BS 4142:2014+A1:2019. As such, further exceedances are possible if it is deemed necessary to apply these.

Table 2: Rating Noise Level Limit Recommendations

Location	Daytime	Night-time
Herons Farm ¹	40 dB (40 dB)	37 dB (27 dB)
Gosling Farm ²	43 dB (41 dB)	37 dB (26 dB)
Sheepcotes Farm	41 dB	35 dB

	(40 dB)	(31 dB)
The Lodge ³	38 dB (41 dB)	35 dB (39 dB)

¹Also represents Deeks Cottage and Haywards

²Also represents Goslings Farm, Goslings Barn, and Greenpastures Bungalow

³Also represents Allshot's Farm

8.4.35 The justification for the daytime limits are as follows:

- An upper limit of Rating Level versus background sound level of +5 dB has been used. As noted above, this represents the threshold where BS 4142:2014+A1:2019 suggests an indication of adverse effect.
- It shall be noted that, typically, ECC would stipulate a requirement for 0 dB exceedance of background sound level. However, the following contextual considerations have been factored in:
 - The site is currently being used for quarry operations during the day. Therefore, receptors would be exposed to noise from commercial works; albeit these works are finite.
 - Although the condition of 'low' Rating Level and background sound levels is not considered appropriate, consideration has been given to absolute noise level thresholds. At +5dB, specific noise levels from the facility would fall below the recommended absolute noise level of 45 dB $L_{Aeq,16hr}$ as identified above in these comments.
 - The subsequent predicted change in ambient noise levels would be 1 dB $L_{Aeq,16hr}$.

8.4.36 The justification for the night limits are as follows:

- For Herons Farm and Goslings Farm, an upper limit of Rating Level versus background sound level of +5 dB has been used. As noted above, this

represents the threshold where BS 4142:2014+A1:2019 suggests an indication of adverse effect.

- For The Lodge and Sheepcotes Farm, an upper limit of Rating Level versus background sound level of +9 dB and +8 dB, respectively, has been used. As noted above, an exceedance of +10 dB represents the threshold where BS 4142:2014+A1:2019 suggests an indication of significant adverse effect.
- It shall be noted that, typically, ECC would stipulate a requirement for 0 dB exceedance of background sound level. However, the following contextual considerations have been factored in:
 - For Herons Farm and Goslings Farm:
 - Consideration has been given to absolute noise level thresholds. At +5dB, specific noise levels from the facility would marginally fall below internal and external recommended absolute noise levels contained within relevant guidance documents (i.e., WHO and BS 8233).
 - The subsequent predicted change in ambient noise level would be 1 dB $L_{Aeq,8hr}$.
 - For The Lodge:
 - Although the condition of 'low' Rating Level and background sound levels is not deemed appropriate, consideration has been given to absolute noise level thresholds. At a Rating Level of +9 dB above the background sound level, the noise level from the facility would meet the recommended absolute noise level of 35 dB $L_{night,outside}$ as identified above in these comments.
 - The subsequent predicted change in ambient noise level would be between 2-3 dB $L_{Aeq,8hr}$.
 - We would not consider it appropriate to increase the absolute noise level threshold further when considered in combination of the +9 dB Rating Level and the change in ambient noise level.
 - For Sheepcotes Farm:

- Consideration has been given to absolute noise level thresholds. At a Rating Level of +8 dB above the background sound level, the noise level from the facility would meet the recommended absolute noise level of 35 dB $L_{\text{night, outside}}$ as identified above in these comments.
- The subsequent predicted change in ambient noise level would be between 1-2dB $L_{\text{Aeq, 8hr}}$.
- We would not consider it appropriate to increase the absolute noise level threshold further when considered in combination of the +8 dB Rating Level and the change in ambient noise level.

8.4.37 With Section 8.7 Cumulative Effects, of Chapter 8 of the ES it states that night-time cumulative impacts have not been considered due to the quarry not operating at night. However, as previously identified, this has failed to acknowledge the consented operations of the Dry Silo Mortar Plant from 0600-0700 and 1900-2200hrs.

8.5 Summary

8.5.1 The key aspects from the review of the documents submitted with the ES are as follows:

8.5.2 No consideration of relevant current guidance, i.e., BS 4142:2014+A1:2019 in demonstrate the potential impact that may arise from its operation. Instead, the assessment is based on noise limits set as part of the Consented Scheme in 2009.

8.5.3 It is not considered that sufficient information has been provided at this time to determine the veracity of the noise level predictions presented within the ES. This includes details of the mechanisms to obtain the source noise data and noise model files.

8.5.4 Through taking the noise level predictions at face value, and using the updated measured data presented in the SLR Technical Memorandum dated 2nd April, we have undertaken an indicative assessment in accordance with BS

4142:2014+A1:2019. This demonstrates a potential adverse impact at The Lodge.

9 Socio Economic

9.1 National Policy

9.1.1 Socio-economic impacts of energy NSIP's are covered in Section 5.12 in NPS EN-1. This section highlights a number of key factors to consider when assessing the socio-economic impacts of development including; changes in local population dynamics, cumulative impacts with other projects and associated impacts such as on tourism from visual impacts. It also encourages any legacy benefits that can be secured from the development.

9.2 Local BDC Development Plan Policies

9.2.1 In terms of the rural economy, Policy SP3 (Spatial Strategy for North Essex) of the Adopted Local Plan covers the spatial strategy for North Essex and states that 'beyond the main settlements the authorities will support diversification of the rural economy and conservation and enhancement of the natural environment'.

9.2.2 Policy SP6 (Infrastructure and Connectivity) of the Adopted Local Plan states in relation to social infrastructure that the local planning authorities will work with relevant providers and developers to facilitate the delivery of a wide range of social infrastructure required for healthy, active, and inclusive communities, minimising negative health and social impacts, both in avoidance and mitigation, as far as is practicable.

9.2.3 Paragraph 4.25 of the Adopted Local Plan sets out that the District has a number of villages and towns that are popular destinations for tourism due to the high quality of their built or historic environment. Such settlements include Finchingfield, Castle Hedingham and Coggeshall. It is important that within these settlements, facilities for visitors are maintained and enhanced in order to promote tourism, without detracting from the features that make them attractive to visitors.

9.3 Local ECC Development Plan Policies

9.3.1 ECC local policy and evidence base includes:

- ECC (2021) Everyone's Essex ECC (2020)
- Developers' Guide to Infrastructure Contributions ECC (2022)
- Essex Sector Development Strategy
- ECC (2022) Levelling Up Essex: An Essex White Paper
- ECC/Mace (2020) Construction Growth in Essex 2020-2040
- ECC/Mace (2022) Green Skills Infrastructure Review for Essex ECC Skills and Employment Principles for Major Projects and Developments
- ECC (2022) Essex Skills Plan
- Local Skills Improvement Plan

9.3.2 Everyone's Essex is Essex County Council's (ECC) plan for levelling up Essex.

It sets out 20 commitments under four headings:

- the economy
- the environment
- children and families
- promoting health, care, and wellbeing

9.3.3 The Essex Developers' Guide to Infrastructure Contributions is a well-established vehicle for setting out planning obligation requirements relating to the work of Essex County Council. It contains specific requirements around the preparation of Employment and Skills plans/strategies to ensure residents of the County benefit from opportunities presented by development projects.

9.3.4 The Essex Sector Development Strategy identifies 'clean energy' as an economic sector with significant growth potential that could be realised in Essex. Within this sector the Strategy identifies green growth as intrinsic to meeting the target for net zero by 2050.

9.3.5 The proposed development will result in increased demand for green skills which are listed in the Green Skills Infrastructure Review for Essex County Council, March 2022.

9.4 Key Local Issues

9.4.1 Essex is home to some of the world's leading companies with concentrations of high-skill, high-wage jobs as well as two leading universities and cutting-edge skills providers. Economic growth is the engine that will drive and enable so many of ECC's wider ambitions – from levelling up to net zero – as set out in Everyone's Essex.

Jobs and Skills

9.4.2 The proposed development is one of a number of projects within the country which could result in increased demand for construction skills and equipment at a time when other major projects may also commence with similar timeframes and result in shortages. The Construction Growth in Essex 2020-2040 report produced by MACE on behalf of ECC suggested that major projects across the county will add 15,000 local labour demand at peak and that labour shortages are expected to peak in 2031.

9.4.3 The applicant should cooperate and work with relevant partners, including other major projects across the county and use the skills, employment, and education strategy to reduce the likelihood and severity of skills and construction worker shortages, as other projects may come forward within similar timeframes. Mitigation is likely to require investment in further education, apprenticeships, and training within the local area to deliver the required workforce for the construction phase, in order to reduce the risk of disruption to this projects and other projects coming forward. The applicant should consider the potential opportunities resulting from looking at how this project will run alongside other projects and the potential employment opportunities that this could offer, including the potential for skills training programmes, shared apprenticeships, and traineeships. Approaching this within the wider context of various concurring schemes will ensure that social value is maximised.

9.4.4 Although the proposed development is not expected to lead to any changes to direct or indirect employment numbers relative to the Consented Scheme, it would be one of a number of energy NSIPs located in or neighbouring Essex that are required to meet national net zero targets and support economic

recovery post-pandemic. Given the national and local skills shortage to deliver these ambitions, the benefits to employment and skills from the project during construction and operation, alone and cumulatively with other NSIPs are significant. ECC would therefore welcome the opportunity to work with the applicant on how to maximise the benefits of the project to local economic growth and in levelling up education, skills, and employment across Essex, both during construction and operation.

9.4.5 The proposed development is a project which could provide an opportunity to incorporate green methods of construction and tools. This would provide an opportunity to develop skills and employment opportunities in green methods of construction. The applicant should use the skills, employment, and education strategy to look at how they can maximise these opportunities and maximise the Social Value impact of the project locally.

9.4.6 Given the specialist nature of any potential temporary or permanent jobs at the site, opportunities, including local upskilling should be maximised to ensure positive, long-term local employment gain to support the county's green economy.

9.4.7 We would expect the applicant to fully engage with local supply chains for labour, material, and equipment. This not only adds to local economic benefit but also reduced greenhouse gas and pollutants deriving from extended travel.

9.5 Adequacy of Application/DCO

9.5.1 Currently there is no reference within the submitted DCO to an employment and skills plan. ECC remains of the view that an employment and skills plan or strategy should be prepared prior to the commencement of the development, should consent be granted. This should set out measures that the applicant will implement in order to support and enhance employment and skills opportunities locally. Further the applicant should also make a skills and education contribution to assist and encourage local people to access apprenticeships and training. This should be secured by way of a DCO requirement, to help maximise positive gains for the local economy, including upskilling the

workforce, (including within education settings), maximising job opportunities and aiding skills retention within Essex. ECC has produced a '*Skills and Employment Principles for Major Project and Developments*' document, which outlines ECC expectations of what an Employment and Skills Plan or strategy should cover. This is attached at **Appendix 5**.

9.5.2 The cumulative impact of significant construction/infrastructure projects in the county requires consideration. This includes 13 NSIPs (including major highways works by DCO at the M25 J28 and improvement to the A12 between Chelmsford and Colchester), four new Garden Communities and two Freeports in Essex. Consideration should include the timing/phasing of the projects and inter-project impacts – including the transportation of construction materials and availability of labour. This should be considered as part of the 'future baseline' scenario.

9.6 Opportunities/Legacy

- 9.6.1 ECC suggests that the following could be considered as part of the proposals:
- Work with local FE providers to invest in and support the development of training programmes in green skills.
 - Contractual targets to create local jobs or apprenticeship opportunities.

10 Other Matters

10.1 Wider Public Concerns

10.1.1 You will note from the comments of one of the local County Council Members that there is local appetite for off-site air quality monitoring, in addition to the air quality monitoring that is required through the permitting regime administered by the Environment Agency (EA). It is acknowledged that the NPPF sets out that the Local Planning Authorities should assume that the pollution control regime will work effectively (NPPF para 194). However, the local community and Parishes have been exploring the possibilities of establishing off-site monitoring working with local universities to review any data collected. The local County Member and Community/Parishes would wish to see funding provided as part of the DCO for the initial set up costs air quality for monitoring equipment and the costs to establish a research project with a local university.

11 Cumulative Effects

11.1 National Policy

11.1.1 Paragraph 5.13.4 of NPS EN-1 covers potential cumulative impacts of development: if development consent were to be granted for a number of projects within a region and these were developed in a similar timeframe, there could be some short-term negative effects, for example a potential shortage of construction workers to meet the needs of other industries and major projects within the region.

11.1.2 ECC understands that this topic was Scoped out of the EIA, however its comments, as are set out above, in respect of the cumulative impact of a proliferation of like development, as Essex recovers from the Covid 19 pandemic, and seeks to find opportunities for the local labour force in what is a competitive and diverse labour market, are considered relevant cumulatively.

11.2 Local BDC Development Plan Policies

11.2.1 ECC understands that BDC will provide their own LiR.

11.2.2 Policy LPP52 (*Layout and Design of Development*) of the Adopted Local Plan states inter alia that use of sustainable modes of transport are promoted in the design and layout of new development. The highway impact shall be assessed, and the resultant traffic generation and its management shall seek to address safety concerns. Developments which will result in a severe impact upon the highway network (taking into account cumulative impacts) will be refused unless they can be effectively mitigated.

11.2.3 Policy LPP78 (*Infrastructure Delivery and Impact Mitigation*) of the Adopted Local Plan states inter alia that Developers and landowners must work positively with BDC, neighbouring authorities and other infrastructure providers throughout the planning process to ensure that the cumulative impact of development is considered and then mitigated, at the appropriate time, in line with their published policies and guidance.

11.3 Key Local Issues

11.3.1 As stated, Essex is currently asked to consider a wide range of large proposals for development, and in addition a long list of Development Consent Order submissions which are at various stages throughout the DCO process.

11.3.2 Cumulatively these developments do not overlap or compete with Rivenhall spatially, however when looked at in combination with other developments, the impact on the available labour force and the job market cannot be underestimated.

11.3.3 ECC has considered the Applicants ES Appendix 6.1 Cumulative Schemes Schedule (APP-043) as far as it relates to developments approved by ECC as the minerals and waste authority and agrees with the list.

12 Draft Development Consent Order (DCO)

12.1 Overview

12.1.1 Indaver, the applicants, have provided both a Draft Development Consent Order (APP-013) and Explanatory Memorandum to the same (APP-014).

12.1.2 ECC consider that the Draft DCO, which itself is a short document, will permit the generating capacity of the scheme, if Consented, within Schedule 1 to “a gross installed generating capacity of over 50MW” (para 1.1 a) with “a capacity of over 50MW, with the effect that the extended generating station will have a gross installed generating capacity of over 50MW” (para 1.1 b).

12.1.3 ECC also notes that the applicants don’t seek, under the DCO to set an upper limit on how much power can be generated, just that Consent is required for over 50MW.

12.1.4 However, the applicants make it clear in their submission at the ES Chapter 4 “Alternatives” August 2022 at para 4.4,3 that: “The turbine proposed to be installed under the Consented Scheme has a maximum output potential. To generate electricity greater than 65MW a larger turbine and generator is likely to be required. This would require a significant change to the consented building envelope.”

12.1.5 This DCO therefore, in the considered view of ECC, must set a limit for power generated within the DCO to be no more than 65MW of power output as failing to do so would, in the Applicants own words “*would require a significant change to the consented building envelope.*”

12.1.6 Such a change to the building envelope is neither proposed nor considered by this DCO, nor factored into the proposals as were originally Scoped by the Planning Inspectorate (PINS). As such the generation of power in excess of 65MW is not considered here by this submission.

12.1.7 ECC therefore request that the decision-making Authority place an upper limit within the DCO, should Consent be granted, limiting the output to 65MW. This will properly control the development as is applied for here.

12.1.8 Also, it is noted that the Requirements as set out in the Draft DCO do not require the applicant to monitor noise levels to ensure that any limits as may be placed on the DCO are complied with, in the interest of amenity. Notwithstanding ECC's considered comments that the noise report as provided in support of this development is outdated and therefore insufficient, it is considered that ultimately noise limits should be both controlled and monitored to ensure compliance and to protect amenity of those living close to this rural site.

13 Community Benefits

13.1 Overview

13.1.1 The Essex Climate Action Commission (ECAC) has set out recommendations for Essex County Council on tackling the climate change crisis across six core themes, Energy being one of the six core themes. Within this core theme there is a trajectory of targets and milestones that will need to be met for Essex to become a net zero county by 2050.

13.1.2 The energy recommendations focus on ways to invest in renewable energy, switch to a greener electricity supply and create community energy neighbourhoods. Key recommendations include:

- A network of community energy neighbourhoods to be built across every district in Essex, to generate, store, share and use energy locally by 2035.
- All large-scale renewable developments to have an element of community ownership from 2021.
- 100 per cent of fuel-poor households to be retrofitted and supplied with affordable renewable energy by 2030.

13.1.3 The Joint Council's would wish to see opportunities and options explored by the applicant for community ownership, together with detail of the scope and operation of a community fund open to applications from community projects or groups.

14 Summary

14.1 Overview

14.1.1 Essex County Council as host Local Authorities have reviewed the application and evaluated the local impacts of the development in the context of National Policy, Local Development Plan Policy and other relevant policy. These local impacts are separated out into their relevant topic areas, informed by the Environmental Statement submitted with the DCO. A summary of impacts and mitigation is provided within each of these topic areas where appropriate and is not repeated verbatim in this section. For detailed impacts, please refer to each topic area.

**Appendix 1 – Inspector Report Ref APP/Z1585/V/09/2104804 dated 22
December 2009 (ECC Ref ESS/37/08/BTE)**



Report to the Secretary of State for Communities and Local Government

by M P Hill BSc MSc CEng MICE FGS

an Inspector appointed by the Secretary of State
for Communities and Local Government

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Temple Quay
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Date: 22 December 2009

TOWN AND COUNTRY PLANNING ACT 1990

ESSEX COUNTY COUNCIL

APPLICATION

By

GENT FAIRHEAD & CO. LIMITED

Inquiry held on 29 September 2009

Rivenhall Airfield, Essex C5 9DF.

File Ref(s): APP/Z1585/V/09/2104804

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ACRONYMS AND ABBREVIATIONS USED IN THE TEXT

AD	Anaerobic Digestion
BAT	Best Available Technique
BDC	Braintree District Council
BDLPR	Braintree District Local Plan Review
BPEO	Best Practical Environmental Option
CABE	The Commission on Architecture and the Built Environment
CD	Inquiry Core Documents
CG	Community Group
CHP	Combined Heat and Power
C&I	Commercial and Industrial
CNEEFOE	Colchester and North East Essex Friends of the Earth
CPRE	Campaign to Protect Rural Council
Defra	Department of Environment, Food and Rural Affairs.
DMRB	Dept. of Transport's Design Manual for Roads and Bridges
DP	Development Plan
EA	Environment Agency
EAL	Environmental Assessment Level
ECC	Essex County Council
EEP	East of England Plan (2008) - the Regional Spatial Strategy
EERA	East of England Regional Assembly
EfW	Energy from Waste
EP	Environmental Permit
eRCF	The evolution of the Recycling and Composting Facility – the proposal which is the subject of the present application
ESRSP	Essex & Southend-on-sea Replacement Structure Plan
ES	Environmental Statement
FOE	Friends of the Earth
IPPC	Integrated Pollution Prevention and Control
IWMF	Integrated waste management facility
JMWMS	Joint Municipal Waste Management Strategy
LBCA	Planning (Listed Buildings and Conservation Areas) Act 1990
LCG	Local Councils Group
LVIA	Landscape and Visual Impact Assessment
MBT	Mechanical Biological Treatment
MDIP	Market de-inked paper pulp
MDR	Mixed Dry Recyclables
MOW	Mixed Organic Waste
MRF	Materials Recycling Facility
MSW	Municipal Solid Waste
mtpa	million tonnes per annum
NE	Natural England
OBC	Essex County Council Outline Business Case
P&W	Printing and Writing Paper
PASS	Planning Application Supporting Statement
PPG	Planning Policy Guidance
PPS	Planning Policy Statement
RCF	The Recycling and Composting Facility for which planning permission has been granted.
RSS	Regional Spatial Strategy
SoS	Secretary of State for Communities and Local Government
SOCG	Statement of Common Ground

SLA	Special Landscape Area
SPG	Supplementary Planning Guidance
SRF	Solid recovered fuel
SWFOE	Saffron Walden Friends of the Earth
TCPA	Town and Country Planning Act 1990
tpa	Tonnes per annum
WDA	Waste Disposal Authority
WFD	Waste Framework Directive
WID	Waste Incineration Directive
WLP	Essex & Southend-on-sea Waste Local Plan (2001)
WPA	Waste Planning Authority
WRAP	Waste and Resources Action Programme
WSE	Waste Strategy for England
WTS	Waste Transfer Station

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Rivenhall Airfield, Essex CO5 9DF.

- The application was called in for decision by the Secretary of State for Communities and Local Government by a direction, made under section 77 of the Town and Country Planning Act 1990, on 12 May 2009.
- The application was made by Gent Fairhead & Co. Limited to Essex County Council.
- The application Ref: ESS/37/08/BTE is dated 26 August 2008.
- The development proposed is an Integrated Waste Management Facility comprising: Anaerobic digestion plant treating mixed organic waste, producing biogas converted to electricity through biogas generators; Materials Recovery Facility for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals; Mechanical Biological Treatment facility for the treatment of residual municipal and residual commercial and industrial wastes to produce a solid recovered fuel; De-inking and pulping paper recycling facility to reclaim paper; Combined Heat and Power Plant utilising solid recovered fuel to produce electricity, heat and steam; Extraction of minerals to enable buildings to be partially sunken below ground level within the resulting void; Visitor / Education Centre; Extension to existing access road; Provision of offices and vehicle parking; and associated engineering works and storage tanks.
- The reason given for making the direction was that the proposal may conflict with national policies on important matters.
- On the information available at the time of making the direction, the following were the matters on which the Secretary of State particularly wished to be informed for the purpose of his consideration of the application:
 - (i) The extent to which the proposed development is in accordance with the development plan for the area, having particular regard to the policies of the Essex & Southend Waste Local Plan 2001, the Braintree District Local Plan Review 2005 and the East of England Plan 2008.
 - (ii) The extent to which the proposal would secure a high quality of design, and its effect on the character of the area, having regard to the advice in paragraphs 33 to 39 of Planning Policy Statement 1: Delivering Sustainable Development.
 - (iii) The extent to which the proposal is consistent with advice in Planning Policy Statement 7: Sustainable Development in Rural Areas which seeks to ensure that the quality and character of the countryside is protected and, where possible, enhanced and to ensure that development proposals are in line with sustainable development principles and, consistent with these principles and taking account of the nature and scale of the development, that development is located in sustainable (accessible) locations.
 - (iv) The extent to which the proposal is consistent with advice in Planning Policy Statement 10: Waste, to provide adequate waste management facilities for the re-use, recovery and disposal of waste and to ensure that decisions take account of the waste hierarchy, the proximity principle and regional self-sufficiency.
 - (v) Whether any planning permission granted for the proposed development should be subject to any conditions and, if so, the form these should take, having regard to the advice in DOE Circular 11/95, and in particular the tests in paragraph 14 of the Annex;
 - (vi) Whether any planning permission granted should be accompanied by any planning obligations under section 106 of the 1990 Act and, if so, whether the proposed terms of such obligations are acceptable;
 - (vii) Any other matters that the Inspector considers relevant.

Summary of Recommendation: Planning permission should be granted subject to conditions.

SECTION 1 - INTRODUCTION AND PREAMBLE

1.1 The application, supported by an Environmental Statement (ES) (Documents CD/2/4 to 2/8), was submitted to Essex County Council (ECC) on 26 August 2008.

ECC confirms that the application was advertised and subject to consultation in accordance with statutory procedures and the Essex Statement of Community Involvement. In response to a request for further information made under regulation 19 of the Environmental Impact Assessment Regulations 1999, the applicants submitted additional information in December 2008 (Document CD/2/10). This information was also advertised and subject to consultation. The application was reported to ECC's Development and Regulation Committee on 24 April 2009, at which it was resolved to grant planning permission, subject to conditions and a legal agreement, and subject to the Secretary of State (SoS) not calling in the application for her own determination. The committee report and subsequent minutes can be found at Documents CD 2/12a, 2/12B and 2/13.

1.2 The application was subsequently called in for determination by the SoS in a letter dated 12 May 2009. The reason given for the direction is that the application may conflict with national policies on important matters.

1.3 No pre-inquiry meeting was held. However, on 19 August 2009, my colleague Andrew Freeman issued a pre-inquiry note to provide guidance on the procedures to be adopted in relation to the inquiry.

1.4 In September 2009 the applicants submitted an Addendum Environmental Statement (Addendum ES) which was intended to provide additional information at the inquiry. The Addendum ES (Document GF/12) provides additional information and amendments on air quality, human health risk assessment, carbon balance and ecology. It includes an air quality impact assessment based on a redesign of the scheme whereby the proposed gas engine stack would be deleted and all emissions re-routed through the CHP stack. The Addendum ES is accompanied by a Revised Non Technical Summary (Document GF/11). These documents were also advertised and subject to consultation, with a requirement that responses be submitted by 14 October 2009.

1.5 At the inquiry, the applicants confirmed that they wished the proposal to be considered on the revised design whereby all emissions would be routed through a single combined heat and power facility (CHP) stack. The revised scheme is set out in the revised set of application drawings at Document GF/13-R1. Bearing in mind the publicity given to this amendment and the opportunity for all parties and individuals to take part in the inquiry, I was satisfied that no-one would be unreasonably disadvantaged or prevented from presenting their views to the inquiry. I therefore accepted that it would be reasonable to consider the proposal on the basis of the revised design, namely with a single chimney stack.

1.6 The applicants submit that the Environmental Information for the proposal comprises the ES dated August 2008, the subsequent Regulation 19 submissions, the Addendum ES and the revised Non Technical Summary dated September 2009. These have been produced in accordance with the Town and Country Planning (Environmental Impact Assessment) (England and Wales) Regulations 1999. I have taken account of the documents comprising the Environmental Information, together with the consultation responses and representations duly made within the advertised timescales in arriving at my recommendation. All other environmental information submitted in connection with the application, including that arising from questioning at the inquiry has also been taken into account.

1.7 The inquiry sat for 10 days between 29 September 2009 and 14 October 2009. I undertook accompanied visits to the appeal site and its surroundings, to local

villages and the local road network on 29 September and 15 October 2009. A number of unaccompanied visits to the area, including the walking of footpaths and inspections of the local road network were made before, during and after the inquiry. On 16 October 2009, I made an accompanied visit to the Frog Island Waste Management Facility operated by Shanks at Rainham in Essex. This facility includes a materials recovery facility (MRF) and a three line mechanical biological treatment (MBT) plant dealing with approximately 200,000 tonnes of waste annually. In order to minimise the impact of odour, the MBT operates under a negative air pressure and utilises bio-filters sited on its roof. The visit was arranged primarily to inspect the operation of the air treatment arrangements. A note on the facility is included at Appendix A of this report.

1.8 A Statement of Common Ground (SOCG) has been prepared between the applicants and ECC. The final version of this SOCG can be found at Document CD/13/4. The document includes draft comments from the Local Councils Group (LCG).

1.9 At the opening of the inquiry, the applicants were advised that any planning obligations under S106 of the Town and Country Planning Act 1990 should be submitted in their final form before the inquiry closed. An unsigned copy of an agreement between the applicants and ECC was submitted in its final form on 14 October 2009. The applicants indicated that a signed executed copy of the agreement would be submitted before the end of October 2009. This was received by the Planning Inspectorate within the timescale and conformed and certified copies of the completed S106 agreement can be found at Document CD/14/5.

1.10 On the final day of the inquiry proceedings (14 October 2009), a submission was received from the Environment Agency (EA) in response to the consultation exercise on the Addendum ES. The main parties and the Rule 6 parties asked for time to consider the contents of this document. Moreover, as the final date for responses to the Addendum ES was 14 October, there was a possibility that further representations could be received later that day. It was therefore agreed that any comments on the EA response and on any other representations on the Addendum ES received by 14 October, should be submitted to the Planning Inspectorate by 1600 hours on 22 October 2009. These responses can be found at Document CD/16. Moreover, any response to such comments was to be submitted within a further 7 days, namely by 1600 hours on 29 October 2009. Those responses can be found at Document CD/17. I indicated that no other representations outside these limits would be considered in my report and that the inquiry would be formally closed in writing on the first working day in November. A letter closing the inquiry was sent to the parties on 2 November 2009.

1.11 In addition to the matters on which the SoS particularly wished to be informed (set out in the summary box above), I indicated at the opening of the inquiry that I considered that the following issues should also be addressed:

- i. the need for a facility of the proposed size;
- ii. the viability of the proposed scheme including the de-inking and paper pulping facility;
- iii. the weight to be given to the fall back position of the Recycling and Composting Facility (RCF) for which planning permission was granted in 2007;

- iv. whether there is a need for the scheme to provide flexibility to accommodate future changes in waste arisings; changes in the way waste is dealt with; and changes that may occur in the pulp paper industry. If so, whether the scheme takes account of such need;
- v. the effect of the scheme on the living conditions of local residents with particular regard to noise and disturbance, air quality, odour, dust, litter, and light pollution;
- vi. the extent of any risk to human health;
- vii. the effect on highway safety and the free flow of traffic on the highway network;
- viii. the impact on the local right of way network;
- ix. the impact on ground and surface waters;
- x. the implications of the associated loss of Grade 3a agricultural land;
- xi. the effect of the proposal on habitats, wildlife and protected species;
- xii. the impact on the setting and features of special architectural or historic interest of listed buildings in the locality; and,
- xiii. the effect on the historic value of the airfield.

1.12 This report includes a brief description of the appeal site and its surroundings and contains the gist of the representations made at the inquiry, my conclusions and recommendation. Lists of appearances and documents are attached.

1.13 A number of terms have been used to describe the development. Throughout the report, I shall refer to the overall development proposal as the evolution of the recycling and composting facility (eRCF), and the proposed buildings, structures and equipment forming the facility as the proposed integrated waste management facility (IWMF)

SECTION 2 - DESCRIPTION OF THE SITE AND ITS SURROUNDINGS

2.1 The appeal site and its surroundings are described in various documents, including the statement of common ground (SOCG)(Doc. CD/13/4), the ECC Committee Report (Doc. CD/2/12A), and the proofs of evidence of various witnesses. The site is situated in an area of primarily open and generally flat countryside. Beyond the area surrounding the site the landscape is gently undulating countryside and is characterised by large open fields, small blocks of woodland and discrete, attractive villages.

2.2 The site is 25.3 hectares in area and at its northern end comprises a narrow strip of land leading southwards from the A120 Coggeshall Road. This narrow strip would accommodate the proposed access route to the IWMF. The route would utilise the existing junction off the A120 and the majority of the length of private road which currently provides access to the existing quarry workings on land to the north of the intended site of the IWMF. The private access road leads down from the A120 into the attractive wooded valley of the River Blackwater. This part of the application site lies within the Upper Blackwater Special Landscape Area (SLA), as defined in the Braintree District Local Plan Review (LP). The access road then climbs gently before reaching its junction with Church Road, a lightly trafficked rural road linking the settlement of Bradwell with various farms and dwellings to the east. Church Road provides a link to Cuthedge Lane which leads to Coggeshall Hamlet. The existing length of access road between the A120 and the Church Road is two lane, although it narrows to a single lane at the junction.

2.3 After crossing Church Lane, the access road continues southward, through agricultural land, as a single lane route with passing bays until it reaches Ash Lane. Ash Lane is a quiet rural lane edged with trees in the vicinity of the junction. At both the Church Road and Ash Lane crossing points, the access road is single lane with signs indicating that vehicles using the access road must stop at the junction before crossing onto the next section of access road. Steel bollards are sited at the corners of the Ash Lane and Church Road junctions in order to discourage vehicles from attempting to turn onto the public highway from the access road.

2.4 The access road continues southward into sand and gravel workings known as Bradwell Quarry. The proposed access to the IWMF would continue in cutting alongside a length of restored sand and gravel workings to the west of the existing quarry. To the south of the quarry, the application site widens into an irregular shaped plot of land.

2.5 This part of the application site, would accommodate the IWMF. It is situated at the southern end of the former Rivenhall Airfield. At present, it accommodates a former aircraft hanger (known as hangar No 2), and includes concrete hardstandings and runway, agricultural land and semi-mature woodland containing 6 groups of trees and 11 individually preserved trees which are the subject of Tree Preservation Orders (TPOs). Hangar No 2 is presently used for the storage of grain.

2.6 The northwestern corner of this irregular shaped plot accommodates the Grade II listed Woodhouse Farm buildings. This group of buildings are in a run-down and semi derelict condition. The farmhouse has been unoccupied for many years. The tiled roof has deteriorated to such an extent that it has had to be covered in metal cladding for protection, and several of the windows are broken and open to the elements. A structure, made of steel scaffolding, has been erected around the adjacent bakehouse in an attempt to preserve that building. However, it appears that the roof and top portions of the walls of the bakehouse have collapsed. The site is heavily overgrown and vegetation prevents ready access to this structure and an adjacent water pump, which is also listed. The former garden of Woodhouse Farm is overgrown and unkempt. Detailed descriptions of the listed buildings in this group can be found in Appendix 3 of the SOCG (Document CD/13/4).

2.7 To the east of the application site there are agricultural fields identified as being within the control of the applicants. Approximately 400m to the east of the application site boundary and Woodhouse Farm, lies a group of buildings, including the Grade II listed Allshot's Farm. However, views of this group of buildings from the west are dominated by the presence of a scrap vehicle business which operates near Allshot's Farm. Vehicles are piled on top of one another and screen views of Allshot's Farm from the vicinity of Woodhouse Farm.

2.8 Approximately 500m to the south east of the application site, beyond agricultural fields, there is a group of buildings known as the Polish site. These buildings are used by a number of businesses and form a small industrial and commercial estate to which access is gained via a public highway leading from Parkgate Road. Parkgate Road runs in an easterly direction from its junction with Western Road. It is about 1km from the application site and is separated from the site by a number of large open fields and two blocks of woodland, one being an area of mature woodland known as Storey's Wood.

2.9 To the south west of the application site, just over 1 km away, lies the village of Silver End. The village has a substantial Conservation Area and contains a large number of listed buildings, primarily related to the garden village developed in association with the Crittall company. One of the listed buildings is Wolverton which lies at the northeastern edge of the village and overlooks the open fields separating the village from the application site.

2.10 Sheepcotes Lane runs from the northeastern corner of Silver End in a northerly direction. At a bend in the lane, approximately 500m from the settlement, lies Sheepcotes Farm, another Grade II listed building. This farmhouse lies on the eastern side of Sheepcotes Lane and is about 500m west of the application site and 600m from the proposed IWMF. However, the farmhouse lies adjacent to a cluster of structures. On the eastern side of this cluster lies another large hangar associated with the former airfield, known as Hangar No 1. Although apparently not in use at present, this hangar has been used in the past for industrial/commercial purposes. There is also a tall tower of lattice construction, previously associated with the airfield but now used for telecommunications purposes.

2.11 Further along Sheepcotes Lane to the northwest of the main element of the application site lies a group of dwellings which includes a listed building known as Goslings's Farm. This dwelling is about 1km from the site of the proposed IWMF. The group of dwellings is separated from the application site by an area of land which has been previously worked for the extraction of minerals. Much of the land has been restored to agricultural use and includes a bund which is to be landscaped and planted.

2.12 To the north of the application site lies the listed building of Bradwell Hall. This building is sited only about 200 metres from the eastern edge of the existing haul road. However, it is some 1.5 km from the main element of the application site and is well screened from the site by the topography of the ground and existing trees and vegetation.

2.13 Nearer the main element of the application site there are a number of dwellings served by Cuthedge Lane, which runs in an east-west direction approximately 700 metres from the site. Herons Farm and Deeks Cottage lie to the south of Cuthedge Lane and are separated from the application site by open fields and land which is being worked for mineral extraction. At present a bund forming a noise barrier for the mineral workings helps to screen the application site from these dwellings. However, the bund is a temporary structure. Further to the east, on the northern side of Cuthedge Lane lies a farmhouse known as Haywards. This dwelling is about 700 metres from the edge of the application site and has views of the site across the flat open fields and site of the former airfield.

2.14 Long distance views of the application site can be gained from a few locations on high ground to the north of the A120. The existing telecommunications tower near Sheepcotes Farm can be seen from some viewpoints on the A120; from viewpoints on high ground to the north of the A120; from a few locations on the B1024 road linking Coggeshall and Kelvedon which is about 3km to the east of the site; and in views about 1km to the south from Parkgate Road/Western Road, as it leads towards Silver End.

2.15 A number of footpaths cross the site. Three footpaths (Nos FP19, FP57 and FP58), including the Essex Way, are crossed by the existing quarry access road. The proposed extended access road would cross FP35. In addition, FP8 which runs approximately north/south in the vicinity of the site passes alongside the complex of buildings at Woodhouse Farm. Hangar No 2 on the application site is visible from various locations along these footpaths.

SECTION 3 - PLANNING POLICY

3.1 Relevant planning policy is set out in the SOCG.

The Statutory Development Plan

3.2 The statutory development plan comprises the following documents:

- East of England Plan, The Revision to the Regional Spatial Strategy for the East of England, (May 2008) (EEP - Document CD/5/1);
- 'Saved' policies from the Adopted Essex and Southend-on-Sea Replacement Structure Plan 1996-2011 (2001) (ESRSP - Document CD/5/3);
- 'Saved' policies from the Essex and Southend Waste Local Plan (Adopted September 2001) (WLP - Document CD/5/4);
- 'Saved' policies from the Braintree District Local Plan Review (Adopted July 2005) (BDLPR - Document CD/5/5); and
- 'Saved' policies from the Essex Minerals Local Plan First Review 1996 (MLP - Document CD/5/6).

3.3 EEP Policy MW1 indicates that waste management policies should seek to ensure timely and adequate provision of facilities required for the recovery and disposal of the region's waste, whilst amongst other things, minimising the environmental impact of waste management. Policy WM2 sets targets for the recovery of municipal and C&I waste and Policy WM3 indicates that the East of England should plan for a progressive reduction in imported waste, indicating that allowance should only be made for new non-landfill waste facilities dealing primarily with waste from outside the region where there is a clear benefit.

3.4 The application site includes a 6 ha area of land identified as a "preferred location for waste management" (WM1) in Schedule 1 of the WLP. Policy W8A indicates that waste management facilities will be permitted at the locations shown in Schedule 1, subject to various criteria including requirements that there is a need for the facility and it represents the Best Practical Environmental Option (BPEO). The policy indicates that integrated schemes for recycling, composting, materials recovery and energy recovery from waste will be supported, where this is shown to provide benefits in the management of waste which would not otherwise be obtained. Policy W3C indicates that, in the case of facilities with an annual capacity over 50,000 tonnes, measures will be taken to restrict the source of waste to that arising in the plan area, except where it can be shown, amongst other things, that the proposal would achieve benefits that outweigh any harm caused.

3.5 Policy RLP27 of the BDLPR indicates that development for employment uses will be concentrated in towns and villages. RLP78 indicates that the countryside will be protected for its own sake by, amongst other things, restricting new uses to those appropriate to a rural area and the strict control of new building outside existing settlements.

3.6 With the exception of the access road, part of which lies within the designated Upper Blackwater Special Landscape Area, the application site is not the subject of any allocations in the BDLPR. Furthermore, it is not referred to in Braintree District Council Draft Local Development Framework Core Strategy (2008).

3.7 I note that on 20 May 2009, the High Court upheld in part a challenge to the East of England Plan and that Policies H1, LA1, LA2, LA3 and SS7 were remitted to the SoS to the extent identified in the Schedule to the Court Order and directed that those parts of the RSS so remitted be treated as not having been approved or adopted.

National Planning Policy

3.8 The following national planning policy documents are relevant:

- The Planning System: General Principles (Document CD/6/15);
- Planning Policy Statement (PPS) 1 – Delivering Sustainable Development (Document CD/6/1);
- Planning Policy Statement: Planning and Climate Change – Supplement to Planning Policy Statement (PPS) 1 (Document CD/6/2);
- Planning Policy Statement (PPS) 7 – Sustainable Development in Rural Areas (Document CD/6/4);
- Planning Policy Statement (PPS) 9 – Biodiversity and Geological Conservation (Document CD/6/5);
- Planning Policy Statement (PPS) 10 – Planning for Sustainable Waste Management (Document CD/6/6);
- Planning Policy Guidance (PPG) 13 – Transport (Document CD/6/7);
- Planning Policy Guidance (PPG) 15 – Planning and the Historic Environment (Document CD/6/8);
- Planning Policy Guidance (PPG) 16 – Archaeology and Planning (Document CD/6/9);
- Planning Policy Statement (PPS) 22 – Renewable Energy (Document CD/6/10);
- Planning Policy Statement (PPS) 23 – Planning and Pollution Control (Document CD/6/11);
- Planning Policy Guidance (PPG) 24 – Planning and Noise (Document CD/6/12);
- Planning Policy Statement (PPS) 25 – Development and Flood Risk (Document CD/6/13);
- Minerals Policy Statement (MPS) 2 – Controlling and Mitigating the Environmental Effects of Minerals Extraction in England (Document CD/6/14); and
- Consultation on the new Planning Policy Statement (PPS) 15 – Planning for the Historic Environment (Document CD/6/17).

Other Relevant Law and Policy

3.9 The SOCG identifies the following law and policy:

- Consolidated EC Framework Directive on Waste 2006/12/EC (previously the Waste Framework Directive 75/442/EEC (as amended) (Document CD/4/1);
- New EC Framework Directive on Waste 2008/98/EC (Document CD/4/2);
- EC Waste Incineration Directive 2000/76/EC (Document CD/4/3);
- Waste Strategy for England 2007 (May 2007) (Document CD/8/1); and
- Joint Municipal Waste Management Strategy (JMWMS) for Essex (2007 to 2032) (Document CD/8/2).

SECTION 4 - PLANNING HISTORY

4.1 The planning history of the application site and the adjacent Bradwell Quarry site is set out in the Final SOCG between the applicants and ECC (Document 13/4).

4.2 Planning permission for a recycling and composting waste management facility on the site was granted in February 2009 (Ref. ESS/38/06/BTE). That scheme is known as the RCF, although the permission has not yet been implemented. The consent relates to the development of a facility for the recovery of recyclable materials such as paper, card, plastic, metals, and fine sand and gravels from residual municipal waste. It includes a waste treatment centre utilising Anaerobic Digestion (AD) technology and Enclosed Composting for the treatment of residual municipal waste. It is intended to have an approximate eventual input of up to 510,000 tonnes per annum (tpa).

4.3 The consent includes for the redevelopment of Woodhouse Farm, which would be used as an Education Centre with associated car and coach parking for the public. It also includes the prior removal of overburden and other material at the site to lower the plant at least 11 m below existing ground level. This is intended to provide maximum visual impact mitigation and to safeguard the protection of national mineral reserves. The planning application and associated documents can be found at Documents CD/3/1 to CD/3/9

4.4 Planning permission reference ESS/07/08/BTE was granted for the extraction of sand and gravel at Bradwell Quarry, together with processing plant, and access via an improved existing junction on the A120. The permission has been implemented with a completion date of 2021. Application reference ESS/15/08/BTE is for a variation of ESS/07/98/BTE to allow amended restoration levels and the 'New Field Lagoon'. The Council has resolved to grant permission subject to completion of a legal agreement which has not yet been signed. In addition, there are a number of other planning permissions with respect to the processing plant at Bradwell Quarry.

SECTION 5 - THE PROPOSED DEVELOPMENT

5.1 The application site is identical to that of the permitted 510,000 tpa RCF. The latest proposals have evolved from the RCF and are therefore known as the evolution of the Recycling and Compost Facility (eRCF). The site is owned by the applicants.

5.2 The site area of 25.3 ha would be utilised as follows:

- 6 ha (approximately) for the proposed integrated waste management facility (IWMF) including buildings and structures;
- 2.6 ha for the redevelopment of Woodhouse Farm;
- 10.6 ha including the fresh water lagoon and proposed areas of landscaping;
- 5.1 ha for the construction of the extended haul road; and
- 1 ha which is the existing haul road to the quarry to be utilised by the proposals.

5.3 The eRCF would provide an integrated recycling, recovery and waste treatment facility. The proposals include:

1. an AD plant treating Mixed Organic Waste (MOW), which would produce biogas that would be converted to electricity by biogas engine generators;
2. a Materials Recovery Facility (MRF) for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals;
3. a Mechanical Biological Treatment facility (MBT) for the treatment of residual Municipal Solid Wastes (MSW) and/or Commercial and Industrial (C&I) waste to produce a Solid Recovered Fuel (SRF);
4. a De-inking and pulping paper recycling facility to reclaim paper pulp (this is described as Market de-inked paper pulp (MDIP));
5. a Combined Heat and Power (CHP) plant utilising SRF to produce electricity, heat and steam;
6. the extraction of minerals to enable the proposed buildings to be partially sunken below ground level within the resulting void;
7. a Visitor/Education Centre;
8. an extension to the existing access road serving Bradwell Quarry;
9. the provision of offices and vehicle parking;
10. associated engineering works and storage tanks; and
11. landscaping.

5.4 The proposed IWMF would provide treatment for 522,500 tpa of waste of a similar composition to that which would be treated by the RCF. It is intended to treat 250,000 tpa of MSW and/or C&I waste; 100,000 tpa of mixed dry recyclables (MDR) or similar C&I waste; 85,000 tpa of mixed organic waste (MOW) or similar C&I waste; and 87,500 tpa of SRF. In addition it would provide a facility for the recovery and recycling of 331,000 tpa of imported waste paper. The IWMF has therefore been designed to import and recycle or dispose of a total of up to 853,500 tonnes of waste annually.

5.5 A comparison of the permitted RCF scheme and the eRCF application is presented on Table 1 and Figures PI-1 and PI-2 of the SOCG. These tables correct a number of typographical errors that were made in the original ES dated August 2008. The SOCG also provides a description of the various elements of the eRCF scheme.

5.6 The AD plant would treat MOW from kerbside collected kitchen and green waste or similar C&I waste. It would have a treatment capacity of 85,000 tpa. As indicated above the AD process would produce biogas which would be converted to electricity. The residues from the AD process would be a compost-like output. Dependant on the quality of the waste feedstock, the resultant compost could be suitable for agricultural or horticultural uses.

5.7 The MRF would process up to 100,000 tpa of imported MDR and recover paper and residues from the MBT and AD processes. Materials recovered by the MRF would be baled and bulked up for export from the site and further reprocessing or recycling. The MRF would have a total integrated throughput of 287,500 tpa linked to other eRCF processes.

5.8 The MBT facility would treat 250,000 tpa of MSW and/or C&I waste. It would comprise five 'biodrying Halls', each with a capacity of 50,000 tpa. Before entering the MBT, the waste would be shredded to produce a consistent feedstock for the 'biodrying' process. At the end of this aerobic drying process, the weight of the waste in the MBT would be reduced by 25%. The resulting material, known as SRF, would be stabilised, sanitised and would be without noticeable odour. During the biodrying process, air would be extracted from the MBT and routed through the buildings to the CHP unit where it would provide combustion air that would be scrubbed and cleaned before discharge to the atmosphere via the CHP stack.

5.9 The Pulp Paper Facility would be used to treat up to 360,000 tpa of selected waste paper and card. This would comprise 331,000 tpa of imported materials, as well as 29,000 tpa of recovered paper and card from the MRF and MBT. The facility would produce up to 199,500 tpa of recycled pulp which would be transported off-site and used to manufacture materials such as graphics, photocopier or writing paper.

5.10 The CHP plant would treat up to 360,000 tpa of material. Its feedstock would comprise up to: 109,500 tpa of SRF produced by the MBT; 10,000 tpa of residues from the MRF; up to 165,000 tpa of process sludge from the Paper Pulping Facility; and 87,500 tpa of SRF manufactured and imported from elsewhere. The energy produced by the CHP would be converted into electricity, heat and steam. Part of the electricity would be exported from site to the National Grid, whilst the remainder would be used as a source of power for the eRCF processes. The extracted air from all the processes on-site would be used as combustion air for the CHP, so that the CHP stack would be the only stack.

5.11 The eRCF would produce between 36 MW and 43 MW per annum of electricity. This would be generated on the site from the AD process (3 MW per annum) and between 33 MW to 40 MW per annum from the CHP plant. Approximately half the energy would be utilised on the site, enabling approximately 18 MW per annum (14.73 MW from the CHP and 3 MW from the AD) to be exported to the National Grid.

5.12 In order to enable the IWMF's buildings to be partially sunk below ground level, 760,000 m³ of boulder clay, 415,000 m³ of sand and gravel and 314,000 m³ of London clay would be excavated prior to its construction. Where possible, the excavated materials would be utilised in the construction of the IWMF, otherwise it would be exported from the site. Sand and gravel could be processed at the adjacent Bradwell Quarry, subject to a further planning permission related to that site.

5.13 Listed building consent would be applied for to enable the Grade II Listed Woodhouse Farm house and associated buildings to be redeveloped and refurbished for use as a Visitor and Education Centre. This would provide an education facility connected to the operation of the IWMF. It would also provide an area for a local heritage and airfield history displays.

5.14 The existing access road to Bradwell Quarry would be extended approximately 1 km south through the quarry workings to the IWMF. All traffic entering or leaving the IWMF would use the A120 and the existing junction which presently serves Bradwell Quarry. The extension to the existing access road through Bradwell Quarry would be an 8 m wide metalled road located in an existing and extended cutting. The existing crossing points with Church Road and Ash Lane would be improved with additional speed ramps, signalling and signage, but would remain single lane.

5.15 Offices would be provided within the IWMF. A staff and visitors car park would be developed west of Woodhouse Farm. The staff and visitor car park would not be used by HGV traffic.

5.16 The IWMF would comprise 63,583 m² of partially sunken buildings and treatment plant. The MRF, MBT and Paper Pulping Facility would be housed in two arch-roofed buildings adjacent to each other, each measuring 109 m wide x 254 m long and 20.75 m in height to their ridges. Both buildings would have "green" roof coverings capable of sustaining vegetation growth, reducing their visual impact and providing a new area of habitat to enhance bio-diversity. To the south of the main buildings there would be a water treatment building and a CHP Plant with a chimney stack 7 m in diameter extending 35 m above the site's existing ground level. In addition there would be a turbine hall; an electrical distribution hall; a Flue Gas and Exhaust Air Clean Up Complex; three AD tanks and an AD gasometer.

5.17 The IWMF would be sited below natural ground level. In order to maximise the void space, the sides of the void would be constructed with a retaining wall. The base of the void would be approximately 11 m below ground level, such that the ridge of the arched buildings would be approximately 11 m above natural ground levels, and the tops of the AD and gasometer tanks about 12 m above ground level. Cladding materials to the buildings would be dark in colour. Where the CHP stack extended above the surrounding woodland, (about 20 m above the existing woodland) it would be clad in stainless steel or a similar reflective material. This would help to minimise its visual impact by reflecting and mirroring the surrounding environment.

5.18 The main structures of the IWMF, except the CHP stack, would be no higher above the surrounding ground level than the existing hangar currently on the Site, which is about 12.5 m maximum height. The approximate footprint of the IWMF's buildings and structures is 6 ha and thereby substantially larger than the existing hangar which is only about 0.3 ha. The IWMF would project north of the existing woodland towards the adjacent quarry.

5.19 Approximately 1.7 ha of woodland would be removed, together with two Native English Oak trees and two smaller groups of trees. All these trees are covered by Tree Preservation Orders. A strip of woodland, about 20m to 25m in depth, would remain adjacent to the void created by the extraction of the minerals and overburden. The remaining woodland around the IWMF would be managed to improve both its ability to screen the development and enhance biodiversity. In addition, 19.1 ha of open habitats would be lost, including areas of grassland, arable land and bare ground.

5.20 Mitigation proposals include the planting of approximately 1.2 ha of new species rich grassland. A further 1 ha of managed species rich grassland would also be provided to the east of Woodhouse Farm outside the Planning Application area. In addition, a further 0.6 ha of new species rich grassland would be provided next to Woodhouse Farm. The green roof on the main buildings of the proposed eRCF would be about 5ha in area and allowed to establish into open habitat.

5.21 Planting would be undertaken on shallow mounds which are proposed on the southwest side of the building. The mounds would have a maximum height of 4m and a width of 20 to 25m. A total of about 2km of new hedgerow planting would be established on the northern site boundary and to either side of the extended haul road. Enhanced planting is proposed between the car park and Woodhouse Farm buildings, and a block of woodland planting would be sited on a triangular plot at the northeast side of the site. These areas of new planting (totalling about 2.2 ha), together with management of existing woodland, would enhance screening of the site and its ecological value. In addition to this planting, a 45 m wide belt of trees (approximately 1.2 ha in area) would be established outside the application area.

5.22 External lighting levels would have an average luminance of 5 lux. No external lighting, other than that used on an infrequent and intermittent basis for safety and security purposes, would operate during the night.

5.23 The IWMF would generate up to 404 daily Heavy Goods Vehicle (HGV) movements comprising 202 into and 202 out of the site a day. There may also be approximately 90 Light Goods Vehicle or car movements associated with staff, deliveries and visitors. During the construction phase, the IWMF would generate about 195 HGV movements in and 195 HGV movements out.

5.24 Waste would be delivered in enclosed vehicles or containers. All waste treatment and recycling operations would take place indoors under negative air pressure and within controlled air movement regimes, minimising the potential for nuisance such as odour, dust and litter which could otherwise attract insects, vermin and birds. Regular monitoring for emissions, dust, vermin, litter or other nuisances would be carried out by the operator to meet the requirements of the Environmental Permit that would need to be issued by the Environment Agency (EA) for operation of the IWMF.

5.25 The proposed hours of operation for the receipt of incoming waste and departure of outgoing recycled, composted materials and treated waste would be 07:00 to 18:30 Monday to Friday and 07:00 to 13:00 on Saturday with no normal deliveries on Sundays, Bank and Public Holidays. The only exception would be, if required by any contract with the Waste Disposal Authority, that the Site accept and receive clearances from local Household Waste Recycling Centres on Sundays, Bank and Public Holidays. Due to the continuous operational nature of the waste treatment processes, the IWMF would operate on a 24 hour basis but would not involve significant external activity outside the normal operating hours for the receipt of waste.

5.26 During construction of the IWMF, a period of 18 to 24 months, it is proposed that the working hours would be 07:00 to 19:00 seven days a week.

5.27 The IWMF includes a Waste Water Treatment facility. All surface water outside the buildings would be kept separate from drainage systems within the buildings. External surface water from roofs and hardstandings, and groundwater pumped during construction, would be collected and stored within the Upper Lagoon proposed to the north of the buildings, which would be below natural ground levels. All drainage and water collected within the buildings and used in the Pulp Facility would be treated and cleaned within the Waste Water Treatment facility. It is anticipated that the IWMF would be largely self sufficient in water, by utilising rain/surface water, and would only require limited importation of water. This could be sourced either from New Field Lagoon, which is part of the existing drainage system for the restored mineral working to the north, licensed abstraction points, or obtained from the utility mains.

5.28 The internal waste reception bunkers would provide buffer storage for about 2 days of imported waste to the MBT and approximately 5 days for the AD, Pulp Facility and CHP, to ensure that waste processing and treatment operations could run continuously and that there would be spare capacity in the event of any planned or unforeseen temporary shutdown of the IWMF.

5.29 The IWMF would provide employment for about 50 people.

SECTION 6 - THE CASE FOR THE APPLICANTS

The Environmental Statement and its review by ERM

6.1 The audit of the ES by Environmental Resources Management (ERM) for Braintree DC (Document CD/2/11) found that the ES was generally of good quality with very few omissions or points of clarification required. Moreover, it indicated that there was good provision of information with only minor weaknesses which were not critical to the making of any decision. The ES audit did not simply focus on process and structure. ERM indicated that it had applied its technical expertise to make informed judgements on the robustness of the submitted assessments. Although ERM considered there was an overestimation of the likely 'demand', it indicated that as a technical assessment of particular topics based on the stated application, the Environmental Impact Assessment (EIA) was generally competent and could be considered to comply with the EIA Regulations.

6.2 Braintree DC was advised by ERM that on the majority of the issues (generally other than need and highways) the ES was a competent technical assessment and supported the assessment of the effects as being "not significant". The audit supports the assessment of the great majority of the likely impacts of the proposals. Moreover, since that audit was undertaken further work has been done in producing the Regulation 19 information and the Addendum to the ES.

6.3 The EIA procedures have been complied with. As regards any concern that the Addendum or other additional information has not been properly made available for public consultation and comment, it is noteworthy that the time allowed for comments on the Addendum was the same as for the main ES, which was itself in accordance with the period set out in the Regulations for the ES. Moreover, it is lawful for additional material to be taken into account at the inquiry, since Regulation 19 (2) of the EIA Regulations 1999 allows such material to be consulted upon at

inquiry. (See Sullivan J. in *R. (on the application of Davies) v. Secretary of State* [2008] EWCA 2223 (Admin) at paragraphs. 41-47).

Common ground

6.4 The following matters can be regarded as common ground:

- (i) The matters set out in the SOCG at least as between ECC and the Applicant.
- (ii) The proposals would generate benefits in that they would allow for sustainable waste management and permit a move further up the waste hierarchy. This appears to be accepted whether or not the paper recovery process is termed "industrial".
- (iii) It is now agreed with the Local Councils Group (LCG) that there is an undisputed need for the MBT facility in terms of MSW and C&I and that the capacity gap is at least 326,800 tpa (set against a capacity of the MBT of 250,000 tpa). The capacity gap for C&I facilities therefore well exceeds the capacity of the plant proposed on the Site.
- (iv) The grant of permission for the RCF is a material consideration.
- (v) Documents GF/17 and GF/27 represent agreement between the applicants and LCG regarding the considerable carbon savings which the eRCF represents, both in comparison with the RCF and the base case in Essex without either the eRCF or RCF, but assuming current trends in recycling etc. Such savings take into account an average distance travelled per kg of waste of 100 km. The submission by Saffron Walden Friends of the Earth (SWFOE) that biogenic CO₂ has not been taken into account is correct to a limited extent, but only because IPPC guidance does not require biogenic CO₂ to be included. The SWFOE argument is with current guidance.
- (vi) When considering the implications of the proposals for what might be termed, generically, "countryside issues" under the Development Plan and PPS7, it is appropriate to take into account the following factors -
 - (a) The remaining infrastructure of the former airfield;
 - (b) The sand and gravel workings and its associated infrastructure;
 - (c) The former radar mast now used for telecommunications;
 - (d) The extent to which the proposals may strengthen or enhance tree cover, ecological interest and/or biodiversity; and
 - (e) The extant RCF permission and fallback position.
- (vii) It also now appears to be accepted that there will not be a plume from the stack and it does not appear to be disputed that the modelled emissions show that there should not be material concerns regarding the proposals in air quality and health terms.
- (viii) The appropriateness and acceptability of the ES given the ERM audit (Document CD/2/11).
- (ix) The professional planning witness for the LCG did not consider the proposals objectionable because of the inclusion of incineration of waste through the CHP plant with recovery of energy, and did not consider that

there was any issue arising with regard to compliance with WLP Policy W7G. Nevertheless, this policy is out of date and out of step with modern waste policy given its heavy reliance on BPEO, which is no longer national policy as set out in PPS10. SWFOE acknowledged the error in their initial evidence regarding the strict application of R1 and, as the note on R1¹ (Document GF37) makes clear, if the Waste Directive 2008 applies to the eRCF, the use of the CHP would be regarded as recovery not disposal. Regardless of the strict characterisation of the CHP plant, the fact that it would meet the thermal efficiency requirements of the new Directive demonstrates that it is nonetheless a sustainable proposal.

6.5 SWFOE characterise the CHP as disposal rather than recovery of waste as a matter of EU law, reference being made to paragraphs 2.153-2.158 of the Defra Stage One: Consultation on the transposition of the revised Waste Framework Directive (Directive 2008/98/EC) (July 2009). The relevant extract is attached to Document OP/2. The point, if it is a good one, applies to all if not most CHP plant as the Defra Consultation points out. This does not alter the following important points:

- (i) CHP is currently supported by WSE 2007 and other national/regional policy because of its ability to recover energy whether or not it is technically recovery or disposal in EU terms; and
- (ii) The Waste Directive 2008 seeks to address the categorisation issue as the Defra Consultation explains at paragraphs 2.159-2.181. It is to be noted that Defra's view is that the burning of non-MSW waste streams in a plant designed to burn MSW (as here) would also be recovery under the new provisions (See paragraphs 2.176, 2.177 of the Defra Consultation).

Comparison between the eRCF and the RCF and the fallback position

6.6 The RCF should figure prominently in the determination of the eRCF application for two reasons:

- (i) the grant of planning permission for the RCF (on 26 February 2009) establishes the principle of development of a major waste management facility on the site against the background of current policies. SOCG Table 1 & Figs P1-1 & P1-2 set out a detailed explanation of the revisions and additions to the RCF's waste treatment capacity that have resulted in the eRCF and a detailed comparison of the developments. The waste management capacities of imported waste of similar composition (510,000 tpa & 522,500 tpa) are similar, and therefore the 'need' for this treatment capacity has already been established. The design, layout, scale, dimensions and external finishes of the eRCF, on the same site, are similar to the RCF. The main differences are the addition of the Pulp Facility and CHP plant and stack.
- (ii) The RCF provides a fallback position for the decision on the eRCF because

¹ See the Waste Directive 2008 Annex II "Recovery Operations" which includes as recovery (rather than disposal) "RI use principally as a fuel or other means to generate energy". Although the formula has been applied, in fact it applies to facilities dedicated to MSW only not to C&I or mixed facilities as the footnote reference in Annex II makes clear. However, compliance with the formula makes it clear that to the extent that the CHP were considered to be "dedicated to the processing of municipal solid waste only" it would comply.

the applicants will implement the planning permission for the RCF (Document CD3/1) if planning permission is not granted for the eRCF. The RCF would have impacts which would occur in any event should permission for the eRCF be refused. Since the site benefits from the RCF permission, it is appropriate to consider the proposals for the eRCF not only on their own merits but against that extant permission. As a permission for which there is at least a reasonable prospect of implementation should permission for the eRCF be refused, it is a material consideration and provides a baseline against which the eRCF should be considered. It is therefore unnecessary to re-consider those matters in respect of which no significant change arises.

6.7 The reason for the delay in the issue of the RCF permission was the lengthy delay in the production of the draft S106 and since it was only issued in Feb 2009, it is not surprising given the call-in that it has not been implemented. The suggestion by the LCG that the RCF scheme was indicative and a stalking horse for something else is refuted. Discussions have taken place over several years between the applicants and ECC since the allocation of the site in the WLP. During that process, indicative ideas were put forward.

6.8 The RCF represents appropriate technology as confirmed by ECC and as set out in the JMWMS. The LCG confuses the provision of appropriate technology with the development of different and even better facilities which are represented by the eRCF.

6.9 The RCF permission would not need to be amended before implementation. In contrast, the Basildon permission would have to be amended to meet the requirements of the OBC2009. The applicants have unashamedly been waiting for the ECC contract. In due course they would enter a joint venture with a major waste company. However, it would not be in the commercial interests of the applicants for details of current negotiations to be made available. In addition there are large quantities of C&I waste to be treated and every prospect of implementation of the scheme for C&I waste only.

The eRCF represents a highly sustainable evolution from the RCF, allowing for the disposal of residual waste to move higher up the waste hierarchy and the efficient use of CHP together with the MDIP. This is an important factor supporting the grant of planning permission for the current application. The consultation response from the Commission on Architecture and the Built Environment (CABE) to the RCF application on 25.10.06 (Document GF/2/B/Appx 1) anticipated the evolution of the proposals now found in the eRCF. The CABE response stated "We would encourage the applicant and the local waste authority to bear in mind the likelihood of changing techniques and requirement for dealing with waste in the years ahead, and to envisage how the facility might need to be adapted and/or extended to meet future needs." By integrating the various recovery, recycling and treatment processes, it would be possible to re-use outputs from individual waste treatment processes that would otherwise be wasted and/or require transportation off site. It is consistent with the hierarchical requirements of waste management. The proposal would be environmentally and financially sustainable.

6.10 The additional benefits of the eRCF are considerable:

- (i) The eRCF would accommodate the only proposed CHP facility capable of treating the SRF to be produced by MBT through the MSW contract. It

would produce its own SRF from C&I waste and its own MBT, if it did not obtain the ECC contract. A CHP facility capable of utilising the SRF produced from the county's MSW is excluded from the reference project and proposed procurement for the competition reasons set out in OBC 2009 paragraphs 4.3.11-4.3.14 (Document CD/8/6).

- (ii) The MDIP would provide a unique facility in the UK after 2011 for the treatment and recovery of paper waste to produce high quality paper pulp. It would take forward Defra's policy in WSE 2007 to prioritise the increased recycling and recovery of paper and to take advantage of the carbon benefits it would provide.
- (iii) Given the agreed CO₂ savings set out in Document GF/27, the proposals would meet the strategies in both WSE 2007 and the UK Low Carbon Transition Plan (July 2009) pages 162-3 (Document CD/8/8) in relation to the section dealing with reducing emissions from waste. If the UK is seeking to reduce emissions from waste of around 1 mpta, this site alone would contribute about 7% of that objective.

Need for the eRCF proposals

6.11 There is a demonstrable need in Essex for new facilities to manage both MSW and C&I wastes. Both the RCF and the eRCF would be well-equipped to deal in a modern sustainable manner with MSW and/or C&I whether or not the applicants (with an operator partner) win the MSW contract. Further, there will be no MDIP facility in the UK after 2011 to produce high quality paper pulp. The eRCF MDIP would be capable of not only meeting the Essex and the East of England's needs in terms of recycling/recovery of high quality paper (thus meeting WSE 2007 key objectives) but providing a facility for a wider area in accordance with EEP Policy WM3.

6.12 The EEP sets challenging targets for the recycling, composting and recovery of both MSW and C&I waste in accordance with the WSE 2007. By 2015, 70% of MSW and 75% of C&I waste must be recovered. Essex is expected to manage 3.3mtpa MSW and C&I waste during the period 2010/11 to 2015/16 rising to 3.7mtpa during the period 2015/16 to 2020/21. However, the need case has been assessed on a more conservative basis (2.4mtpa by 2020/21) put forward by the East of England Regional Assembly (EERA) in a report entitled 'Waste Policies for the review of the East of England Plan' dated 29 June 2009 (Document CD/5/2). As indicated in Document GF/33, consultation has commenced on this matter as part of the process of review (Document CD/5/8). There is a small change in the figures contained in the consultation document compared to those set out in June 2009 in terms of predicted MSW arisings. However, C&I predictions remain the same and the changes do not have a material impact on the analysis undertaken by the applicants.

6.13 The potential treatment capacity of the currently permitted facilities in Essex is 1.375 mtpa. There do not appear to be any current plans to bring capacity forward on the WLP preferred sites that are not already the subject of a resolution to grant planning permission. ECC indicate that it is not possible to predict whether other proposals will come forward that would be acceptable. Whatever proposals may be in contemplation by others, they are inherently uncertain. Their delivery and acceptability is uncertain, as is the extent to which they would be able to compete in the forthcoming PFI procurement.

6.14 Even with the application proposals in place, there would be a need for additional facilities, as demonstrated by the shortage of treatment capacity that exists to deal with the arisings that are specified in the regional apportionment set out in the EEP. If the reduced figures in the EERA Report of June 2009 are used, there would still be a shortage of treatment capacity and a need for additional facilities. Notwithstanding this, the figures set out in EEP Policy WM4 are the determinative figures for the purposes of this application.

6.15 The analysis undertaken in Document GF/4/A confirms that either the RCF or eRCF is critical in terms of meeting the county's targets. Even on the conservative basis referred to at paragraph 6.12 above, a serious treatment capacity gap would remain ranging from around 410,000 to 540,000 tpa. This indicates that at least one additional facility would be required regardless of whether the RCF or the eRCF were contracted to treat MSW.

6.16 The 'Updated Capacity and Need Assessment – Final Report' (Document CD/10/4) prepared by ERM for ECC in July 2009 is inaccurate. For example page D11 in Annex D identifies sites which should not be included in the list as they do not contribute to the current capacity to treat C&I waste. Contrary to the claim in paragraph 6.1 of Document LC/1/E that the overall capacities in the 2009 ERM report are as accurate as they can be, it is clear that the document contains errors. Moreover, that report will not form part of the evidence base for the Waste Development Document as stated in paragraph 3.1 of Document LC/1/E. ECC will arrange for a new report to be prepared.

6.17 Without thermal conversion of residual waste, Essex would need to permit at least 1 or 2 new large and high input capacity landfills. Such capacity is unlikely to come forward because of the difficulty of securing planning permission for disposal capacity where insufficient treatment capacity exists further up the waste hierarchy, and because of the effect of landfill tax on the economics of disposal against treatment. Thermal treatment of residual waste, incorporating CHP, as strongly supported by the WSE 2007 and the OBC 2008, increases the level of recovery and considerably reduces long term pressure on landfill needs. The policy-supported need case is further supported by the fact that most currently permitted and operational landfill capacity in the county (excepting the recently permitted Stanway Hall 'Landfill' at Colchester, which is tied to the proposed MBT facility, and the Bellhouse site at Stanway) will be closed by 2015 as indicated in Document GF/24. Additional landfill capacity will therefore be required to meet landfill needs even with all treatment capacity in place.

6.18 It appears that the ERM reports had considered "all void space without restriction". Sites such as Pitsea may well be of limited contribution. The applicants approach is therefore a more realistic analysis of landfill capacity than that adopted in the ERM reports.

6.19 The landfill policy and legal regime (including the forthcoming landfill tax increases) provide a disincentive to the continuing rates of use of landfill. In contrast, there are positive incentives for increased recycling and recovery, including the greater commercial attractiveness of recycling and recovery. This is important, since it makes proposals such as the eRCF critical to achieving and reinforcing the objectives of current policy. It is also relevant to claims about inadequacies of paper feedstock which are dismissive of the ability to divert from landfill a significant

quantity of paper and card which is currently landfilled in the East of England at a rate of about 713,000 tpa (Document CD/10/1 pages iii and 78 – Detailed Assessment of East of England Waste Arisings - Urban Mines Report, March 2009).

Relevance of the Essex Waste Management Partnership PFI OBC July 2009

6.20 The need for the eRCF is unaffected by the fact that it is not the reference project in ECC's OBC 2009. The reference project was amended to a single site not because ECC considered the application site to be unsuitable but because ECC did not have control over it, whereas it did control the Basildon site which now forms the sole reference project site. The reference project does not preclude tendering for the ECC MSW contract based on the Basildon Site and/or an additional site, such as the application site. (Paragraph 4.3.19 Document CD/8/6). ECC confirms that both the RCF and eRCF would provide suitable technologies for the proposed ECC waste contract which is explained in the JMWMS at section 4.6 (Document CD/8/2). The applicants will be taking part in the forthcoming public procurement exercise by ECC, involving the application site, whether with the RCF or the eRCF.

6.21 The application site is acknowledged as part of the "competitive landscape" for PFI procurement and is referred to under that heading in the OBC 2009 at paragraph 4.3.4. The OBC does not include provision for C&I waste which lies outside the WDA's duties, although ECC as WPA is required to take account of the need to provide for facilities for such wastes. The OBC 2009 therefore only makes provision for one part of Essex's waste needs and comprises less than 1/3 of the planned budget for ECC's waste, as indicated in Document GF/24.

6.22 Although objectors to the application proposal have made frequent reference to existing and potential increases in recycling, kerbside collections, composting, the provision of local facilities and the like, it is important to recognise that waste does not treat itself and facilities such as the eRCF are required in order to allow ECC to meet its waste targets and to increase still further recycling, treatment and recovery of waste. The proposals will assist in, and not obstruct, a continued increase in recycling and recovery of waste. The PPS10 advice for communities to take greater responsibility for their waste does not obviate the need to make provision for facilities such as the eRCF for the county generally or to meet ECC's share of London's waste.

Waste arisings

6.23 Whether or not the RCF or eRCF were originally proposed for MSW and/or C&I waste is irrelevant, as the applicants have made clear that both facilities could deal with MSW or C&I or both. The document submitted in support of the RCF application considered C&I waste at some length and made it clear before planning permission was granted that at least some of the waste to be dealt with would be C&I. (RCF Supplementary Report at Document CD/3/6, Section 5).

6.24 The treatment capacity gap for C&I waste is such that even if the applicants do not win the ECC MSW contract, there is a sufficient need for the site to deal solely with C&I waste. The first two tables at Document GF/24 show an overall treatment capacity gap (i.e. need) of between 412,762 and 537,762 tpa even on the basis that there is development of both the Basildon Site and the RCF/eRCF. This need is agreed by EEC. Even on the basis of the ERM Reports (Documents CD/10/3 and

10/4) the deduction of the treatment sites agreed with the LCG witness would give rise to a need/capacity gap of at least 326,800 tpa.

6.25 The relevant figure for determining the appeal is, in fact, the 3.7 mtpa in 2020/21 apportioned to Essex by the EEP Policy WM4. The draft figures in the EERA Report of July 2009 (Document CD/5/2), which forms the basis of the consultation currently under way, and those in the ERM Reports, have not yet been subject to the results of consultation and examination and are at a very early stage of consideration. They therefore carry little if any weight and do not provide a justification for departing from the RSS figures having regard to the clear guidance of the Secretary of State in PPS10 at paragraphs 13 to 15.

6.26 The capacity gap which would remain on the basis that both the Basildon and RCF/eRCF facilities are provided would have to be met by other sites. Only 3 of the WLP allocated sites have come forward despite the Plan being adopted in 2001. The allocations are of more than 10 years' standing if the draft plan is considered. The 3 sites which comprise the application site, the Basildon site and the permitted Stanway site, will not meet all of Essex's waste management needs.

6.27 The proposal put forward by Glendale Power for a 30,000 tpa AD power station and associated CHP system at Halstead (Document CD/15/5/B) is considered at Document GF/40. There has been no planning application for such a proposal and it is at an embryonic stage. It does not affect the conclusions of the overall analysis of the need for waste treatment facilities in Essex.

Alternative approach - the ERM Reports (Documents CD/10/3 and 10/4)

6.28 The EEP EiP Report (Document CD/5/7 Chapter 10) does not discuss the methodology or the details of the ERM assessment and cannot be regarded as an endorsement of any specific methodology. In any event, the RSS being at a higher strategic level is likely to have been based on higher level data and not subject to the sort of detailed local information and scrutiny which will be the case with the Essex and Southend waste plan. Notwithstanding this, the key is in the detail and reliability of the data. The EiP's judgment on the reliability of the data for the RSS says nothing about the reliability of the data in the reports of ERM produced for ECC.

6.29 Those who are familiar with the sites referred to in the ERM Reports, are critical of the lack of practicality or realism in the assessment of existing capacity. It is clear from the examples identified at the inquiry that reasonable care has not been used in drafting the "final" ERM 2009 report. The pet crematoria in the 2007 list of sites (Table 3.2, ERM 2007) were plainly unsuitable for inclusion. The Schedule at page C2 of the 2009 ERM report included permitted sites, whereas it was intended to show sites with a committee resolution to permit subject to legal agreement. Table 3.3 on page 16 of that report did not have figures which properly corresponded to the schedules at pages C1 and C2. The 888,000 tpa figure in that table may be accounted for by Rivenhall plus part of Basildon, but it is unsatisfactory to have to make such assumptions. It should also be noted that the arisings figures used are estimates based on figures derived from Urban Mines which in turn are derived not from East of England figures but a report from the North West.

6.30 In contrast, the applicants' assessment, which gave rise to the waste flow models at Document GF/4/B/4, considered sites in terms of what they are reasonably

capable of doing. For example transfer sites were assessed by their ability to sort materials and send such material direct to market. Moreover, EA data on actual throughputs was utilised.

6.31 Having regard to the guidance at paragraphs 13-15 of PPS10 in relation to plan reviews, the draft figures from EERA and ERM reports carry little or no weight. Moreover, as the standard of the 2009 report is not one which would normally be expected to be provided to a client, it should be given no weight in the consideration of the need case.

Conclusions on general need

6.32 The application site is plainly needed to meet the significant shortfall in Essex's current and future capacity to deal with waste. The proposal is on an allocated site in a preferred location, albeit with a larger footprint, which already has the benefit of an implementable permission for a similar scale and type of development.

The Paper Pulp Facility

6.33 The Pulp Facility (MDIP) is a further waste management facility. It would produce a product that directly replaces virgin fibre pulp in mills producing printing and writing paper (P&W). The applicants envisage concentrating on producing pulp for P&W rather than tissue. The MDIP would utilise the waste heat and steam from the CHP plant, reduce the use of virgin trees, avoid reliance on landfill, and associated methane production, and result in energy and CO₂ savings by virtue of the use of waste rather than virgin paper.

6.34 Around 13.15mtpa of waste paper, card and packaging is available for recovery in the UK. In 2008, 8.8m tonnes was collected or sorted for recycling, of which 4.18m tonnes (45%) was used in UK paper or board mills. The remainder was exported, principally to China (Document GF/24). Very little recovered medium and high grade papers are recycled for P&W because most goes to tissue mills, or is exported, and UK P&W production capacity utilising recovered paper is very low. More could become available if a ready supply of pulp were to be made available. In the UK, there are no pulp facilities comparable to that proposed and only two in Europe as a whole. There are a number of factors (e.g. procurement initiatives and social responsibility programmes) which would drive the market for P&W production utilising recovered paper.

6.35 The proposal would help to avoid sending paper waste overseas, and reduce reliance on virgin wood pulp from abroad.

6.36 With regard to the availability of feedstock, there is an ample supply within a wider area than the East of England. Moreover, there is no rational planning or sustainability/carbon reduction basis for confining 80% of the feedstock to the Region since there are as many locations within London, the South East and East Midland Regions which are as accessible to the application site as many parts of the East of England. Modelling of the carbon benefits of the eRCF was predicated on an average travel distance of 100km per kg of waste. Distance from source is a more logical basis for a planning condition than the boundaries of the Region. Notwithstanding this, no adverse consequences have been identified if the MDIP was not run at capacity.

6.37 There is a considerable resource of potentially available P&W feedstock in the East of England Region which could be targeted given national policy in WSE 2007 and commercial incentives. It is not expected that the facility would deal with waste primarily from outside the region. The following factors are noteworthy when considering feedstock:

- i. At present 180,000 tpa of feedstock is provided to the former M-Real plant in Sittingbourne which will cease to operate for high quality grade paper from P&W waste by 2011. That plant is proposed to go over to the production of packaging quality paper as indicated in Document GF/30.
- ii. The 2009 Urban Mines Report identified about 713,000 tpa of paper and card currently going into landfill in the East of England (Document CD/10/1 Page 78). Urban Mines noted that, along with other materials, this represents a potential resource for recycling, composting or energy recovery, should the requisite separation and treatment regimes and facilities be in place. Bearing in mind that about 36% of paper and card consumed in the UK is P&W (Document GF/24) it can be assumed that about 257,000 tpa P&W goes to landfill in the East of England. There is therefore potential for further recycling and recovery.
- iii. 1,879,174 tpa of paper and card is exported through the East of England out of Felixstowe and Tilbury (Document GF/4/B/20) of which 304,186 tpa is sorted. There seems no good reason why waste which is currently passing through the East of England should not be processed at the application site if competitive terms could be offered.

6.38 The eRCF would be able to receive and process P&W recovered in the East of England Region as its presence would provide collectors with a more financially attractive destination than alternatives further afield. Processing high grade paper in the UK is plainly preferable to shipping it abroad (where the majority is used for newsprint or packaging), or sending it to landfill in the UK. Seeking to recover the waste more sustainably is in accordance with the key initiative to increase paper recycling in WSE 2007 at pages 51 and 55.

6.39 Based on discussions with paper producers and suppliers, and the advice of specialists such as Metso and Pricewaterhouse Coopers (Document GF/4/D/1), it would be possible to produce pulp to an appropriate quality at a competitive price. Document GF/31 indicates that the applicants' potential partners are keen to set up a closed loop recycling process and thereby encourage the return of used paper to their customers. There should be little need to seek feedstock that is currently being delivered to tissue mills.

6.40 There is an overwhelming need for both the proposed MSW and/or C&I waste treatment capacity including the Pulp Facility. The assertion that the proposals are not commercially attractive is unfounded given the strong interest of the commercial market in both the RCF and the eRCF, and the need for the Pulp Facility, which is supported by the World Wildlife Fund (Document GF/4/D/5).

Viability issues and the paper pulp facility

6.41 Objectors submit that they have seen no evidence that the MDIP proposal is financially viable. However, the relevant figures are commercially confidential as the

applicants are currently in negotiations regarding the proposal. In general the planning regime does not require a developer to prove viability. Nevertheless, the information provided at Section 2 of Document GF/4/C and the documents referenced therein should enable the SoS to be satisfied that there is no issue with regard to the viability of the MDIP. The capital cost of the MDIP would be less than a stand alone facility because it would be part of a much larger scheme. Moreover, relatively cheap power would be available from the CHP, thereby enabling the MDIP to operate competitively. There is genuine commercial interest in the eRCF proposals from potential operator partners and key players in the waste industry, as evidenced by the letters produced at Document GF/4/D and GF/26.

6.42 The issue of viability has arisen primarily because of EEP Policy WM3. This acknowledges that specialist waste facilities such as the MDIP, may have a wider than regional input of waste. It indicates that 'Allowance should only be made for new non-landfill waste facilities dealing primarily with waste from outside the region where there is a clear benefit, such as the provision of specialist processing or treatment facilities which would not be viable without a wider catchment and which would enable recovery of more locally arising wastes.' Viability is only an issue if the facility is one "*dealing primarily with waste from outside the region*" it being accepted that there is a clear benefit from the specialist facilities which the MDIP would provide.

6.43 The site would not be dealing *primarily* with waste from outside the catchment (which must mean more than 50%), only a proportion. The restriction in Policy WM3 therefore does not apply, although the recognition of the role of the specialist facility remains relevant.

The relationship between planning and environmental permitting

6.44 The relationship between planning and permitting is clearly set out in PPS23 paragraph 10. Amongst other things this indicates that 'The planning system should focus on whether the development itself is an acceptable use of the land, and the impacts of those uses, rather than the control of processes or emissions themselves. Planning authorities should work on the assumption that the relevant pollution control regime will be properly applied and enforced. They should act to complement but not seek to duplicate it.'

6.45 The acceptability in principle of the proposal must be shown in land use planning terms. It is therefore appropriate to demonstrate that the impacts on the environment, human health and other related matters can be adequately controlled, managed and monitored by the EA, dealing with the technical issues of the process, and that any necessary mitigation and control of pollution can be undertaken through the EP process.

6.46 As noted already, the EA does not consider there to be an issue in principle with the acceptability of the proposed eRCF. The EA's e-mail of 5 October 2009 (Document GF/28) explains why an application for an EP is not practicable at the moment. There is no legal or even policy requirement for the EP to be submitted contemporaneously with the planning application and in a case such as the present where the process is protracted due to call-in and the need to enter into a contract with an operator, it is not surprising that the EP application has not been run in parallel with the planning application.

6.47 However, a significant amount of work has been carried out to assess the likely impacts of the proposals on matters such as air quality and the control of emissions, as can be seen from the component parts of the ES. The EA has been involved in discussions with the applicants throughout the design, modelling and application process. The recent EA letter (Document CD/15/7), to the extent that the EA has properly understood the changes and the Addendum, shows that some additional work would be needed for the EP, though it does not show any objection in principle to the proposals. The EA letter refers to the stack heights of 2 energy from waste (EfW) plants elsewhere. However, the buildings associated with those plants are substantially taller than the proposed eRCF building, and cannot be directly compared with the application proposal. The lower height of the eRCF building would result in a lower stack than would otherwise be necessary.

6.48 Notwithstanding this, the EA has sent a subsequent letter dated 22 October 2009 (CD/16/1), whereby it confirms that it does not object to the proposed eRCF. As a requirement of the Environmental Permit (EP), the applicants would be required to demonstrate that the eRCF would not have a significant impact on local air quality. This could be achieved by means other than increasing the stack height. In fact, dilute and disperse using a taller stack is one of the least preferred methods for controlling the impact of industrial emissions, with preference given to abatement and the reduction of emissions at source. The applicants would need to demonstrate that the predicted impact from the eRCF would not result in a significant increase in pollutant concentrations. Where necessary, additional controls could be used to reduce emissions. This is recognised in the latest letter from the EA which indicates that *'there may be other options available to the applicant to ensure that the best level of protection is afforded to the local environment, such as more stringent emission limits...'*

6.49 The H1 document referred to by the EA in its letter of 13 October 2009 is a consultation document and the Environmental Assessment Levels (EALs) proposed in that document have not been formally accepted. Nevertheless, should these be formally adopted, the applicants would need to demonstrate to the EA that there would be no significant worsening of air quality with respect to these EALs. With regard to the EALs for some of the trace metals, it has already been demonstrated that assumed trace metal emissions from the CHP plant have been substantially overestimated. The CHP plant could operate at substantially more stringent emission limits, thereby providing an alternative option for reducing the impact of the plant on local air quality.

6.50 The detailed environmental assessment already undertaken has demonstrated that the impact on air quality would be acceptable. The assessment is based on the most reasonable worst case and demonstrates the appropriateness of a 35 m stack height (above existing ground levels) in terms of air quality, human health and landscape and visual impacts. After discussions with the EA (following their letter of 13 October 2009), the applicants remain confident that even if more stringent emissions limits were imposed through the permitting process, a 35 m stack height would be achievable by means of the Best Available Technique (BAT) at that time. Nevertheless, in the unlikely event that the height of the stack is required to increase by 5m (i.e. up to a height of 40 m above existing ground level), visual material has been presented to determine whether such an increase in stack height would be acceptable in landscape and visual impact terms. If planning permission were

granted, the Inspector, the SoS and the general public can be confident that the EA would ensure that any environmental risk would be adequately managed.

6.51 There is no reason to believe that the proposed technical mitigation measures could not be dealt with satisfactorily at the EP stage and thereafter monitored, enforced and reviewed where necessary by the body with the appropriate technical expertise to deal with such issues.

Issue 1: The Development Plan

6.52 Whilst the application falls to be determined in accordance with the Development Plan (DP), unless material considerations indicate otherwise, a breach of one or even several policies does not mean that the proposal considered as a whole is not in accordance with the DP. Moreover, the materiality of the fallback position may render any such breaches of little consequence since they are likely to occur in any event.

6.53 The statutory development plan includes the EEP, WLP and BDLPR. Only the EEP is up-to-date. Key portions of the WLP are not consistent with PPS10. For example, policies in the WLP rely on BPEO, whereas the Companion Guide to PPS10 (document CD/6/6/A) makes it clear at paragraph 8.26 that there is no policy expectation for the application of BPEO, and that requirements should not be placed on applicants that are inconsistent with PPS10. Furthermore, it is not the role of a development control planning inquiry to revisit the figures in the RSS for waste and regional waste apportionments, other than in accordance with the advice at paragraphs 13 to 15 of PPS10. To do otherwise would destroy the certainty which PPS10 requires, and undermine the statutory role of the RSS.

6.54 The need for the proposal has been demonstrated above. In the light of that need, the eRCF would enable delivery of the waste management objectives in EEP Policy WM1 and achievement of the recovery targets in EEP Policy WM2. It would make a major contribution to the meeting of the Landfill Allowance Trading Scheme (LATS) targets and would deliver a solution consistent with the JMWMS. It would minimise the environmental impact of waste management; manage waste as a resource; and help to secure community support and participation in promoting responsible waste behaviour. It would secure the wider environmental and economic benefits of sustainable waste management and assist almost immediately in the meeting of the Government's targets for reducing greenhouse gas emissions.

6.55 The MDIP proposal is consistent with EEP Policy WM3. It would enable the recovery of locally arising wastes together with higher grade waste paper attracted from outside the region because of the absence of similar facilities in the UK.

6.56 The eRCF would assist ECC in managing its apportionment, set out in EEP Policy WM4, in a manner which would be in accord with EEP Policy WM5. The eRCF proposal accords with the objectives of EEP Policy WM5 insofar as it would be developed at the preferred location WM1 identified in Schedule 1 of the WLP. The needs tests in WLP Policies W3C and W8A would also be met.

6.57 Objectors to the eRCF contend that the site does not comply with the DP for two principal reasons. Firstly, the application site extends considerably beyond Preferred Location WM1 and, secondly, the proposal would introduce an industrial

process onto a site part designated for waste management facilities contrary to BDLPR Policies 27 & 78. Other potential conflicts relate to assessments of the impact of the proposals and the mitigation measures, which are dealt with under specific subject headings, below.

WLP Allocation WM1 and the size of the site

6.58 The WLP and the BDLPR, unlike the EEP, are not in all respects up-to-date and do not reflect PPS10. There is reliance on BPEO which was removed from national policy and replaced by the requirements of PPS10. The RCF permission is an indicator that the eRCF should be accepted in planning terms and forms a robust fallback position. The WLP is 9 years old and based on data which is even older. The site allocations were formulated no doubt in the light of a different policy landscape for waste and different figures regarding arisings which had to be dealt with within the plan area.

6.59 The views of the EERA Regional Secretariat on the RCF are set out in a report to the regional planning panel sub committee dated 19 January 2007 (Document CD/3/2). This comments on the difference in scale between the RCF and the allocation in WM1, and states that the difference in the size of the site compared with the allocation is acceptable in strategic terms. Given the scale of the existing need and the benefits of providing the integrated eRCF, the difference in the size of the site required for the eRCF compared with the allocation is equally justified.

Whether the MDIP is a Waste Treatment or Industrial Facility

6.60 The question of whether the MDIP should be classed as an "industrial" facility is a red herring. The focus of BDLPR Policy RLP 27 is on the strategic location of employment generators and traffic, and not whether a use is characterised as "business", "commercial" or "industrial". The BDLPR does not regulate waste development and, in the light of WLP WM1, waste development on the application site would not be a breach of the DP. The eRCF is a waste facility and therefore is not in breach of RLP27. Moreover, the RCF is as much an employment generator and generator of traffic and there is little difference between it and the eRCF.

6.61 The MDIP would be a waste management facility integrated with other such facilities. Its presence would make no difference to the size of the application site, and its claimed non-compliance with Policies RLP27 & RLP78 is, on that basis, irrelevant. Co-location of waste management facilities and other industrial processes accords with PPS10 and EEP Policy WM1 and secures major benefits, including savings in energy consumption and reduction in CO₂ emissions.

6.62 In terms of the WSE 2007 (Document CD/8/1) the recycling of paper waste is as much a priority as other forms of waste management which recycle and recover waste in accordance with national and EU policy. WSE 2007 is more than simply guidance. As it notes on page 6, the waste strategy and its Annexes, together with PPS10, is part of the implementation for England of the requirements within the Framework Directive on Waste, and associated Directives, to produce waste management plans. These are the national level documents of a tiered system of waste planning in England, which together satisfy the requirements of the various Directives.

6.63 Page 13 of the WSE 2007 indicates that key waste materials have been identified where diversion from landfill could realise significant further environmental benefits. It indicates that the Government is taking action on various materials including paper, and that it is establishing with the paper industry an agreement with challenging targets to reduce paper waste and increase paper recycling. At pages 52-53, paper and card are identified as being among the priority waste materials which offer the greatest potential for reduction in greenhouse gases from increased recycling and recovery.

6.64 A district local plan does not deal with waste management facilities. Notwithstanding this, the concerns of the LCG with regard to the MDIP in relation to BDLPR Policies 27 and 78 should apply equally to the treatment of other waste materials at the eRCF, including the production of SRF through the MBT and composting through the AD. All of these processes treat waste materials and end with a recovered product. Under EU waste legislation and policy, waste remains waste until it is recovered (i.e. converted by the recovery process into some beneficial product). Accordingly, while the pulp resulting from the process would be a saleable product, until it has gone through the treatment process and been recovered, it remains waste and the processing through the MDIP is a waste management process.

6.65 The character and use of the proposals as a whole, including paper treatment, is that of a waste management facility. This is wholly consistent with the RSS Policy WM5 and WSE 2007. Permission is not sought for any general industrial facility. A similar sized waste facility, albeit without the MDIP, has been permitted in the form of the RCF. Policy RLP27 is concerned with employment and traffic, and this will arise in any event through the RCF. ECC accepts it is questionable whether the proposals represent a departure from the DP in relation to Policy RLP27, and it was only treated as such by ECC on a precautionary basis.

6.66 With regard to the claimed breaches of policy relating to agricultural land, countryside policies and the like it is relevant to note that PPS7 and PPS10 have to be read together in the light of sustainable waste management strategy. Moreover, the BDLPR does not consider waste management issues and, notwithstanding this, the RCF has very similar impacts. National policies, such as those in PPS7, also require regard to be paid to weighty issues such as sustainable waste development and the need to address climate change. These matters are addressed by the application.

Highways and transportation

6.67 It is reasonable to anticipate that the eRCF would generate no more than 404 daily HGV movements, particularly as there is potential for lorries that deliver material to the site to be used for carrying material from the site (i.e there is potential for back hauling). The operator would have control over deliveries and the despatch of material to and from the proposed plant, and there is no reason to believe it, or the hauliers themselves, would wish to operate on the basis of sub-optimal loads. Data from the inputs for the EA's 'WRATE' Life Cycle Assessment Model are an unsatisfactory substitute for the knowledge of experienced waste hauliers, which was used by the applicants.

6.68 Notwithstanding this, there has been no suggestion that any specified number of HGV movements greater than 404 would have materially different or more serious implications in highways and transportation terms. The dispute about HGV numbers primarily relates to concerns about the capacity of the proposed MDIP.

6.69 Braintree District Council resolved, despite the Highways Agency's position and without the benefit of advice from a highway engineer that it would object to the eRCF on the sole basis, in this context, of the impact of resulting HGV flows on the capacity and safe operation of the A120. However, transport planning policy indicates that facilities such as the eRCF should have good access to roads high up the roads hierarchy, and Trunk Roads should therefore be expected to accept increased traffic flows associated with it. The Highways Agency's decision not to object to the eRCF was founded on current guidance (see Document GF/10/F).

6.70 The application site is the only one of the preferred waste sites listed in the WLP to have the benefit of direct access onto the Trunk Road network. It is accepted that the A120 Trunk Road is busy and some sections operate in excess of their economic design capacity and have reached their practical capacity. However, this occurs at peak times and the road should not be regarded as unable to accommodate additional traffic. Traffic to the eRCF would avoid peak hours where practicable. Most of the traffic attracted to the eRCF would not coincide with the peak hour periods on the A120. Notwithstanding this, the catchment area for the waste arisings suggests that an alternative elsewhere would attract increased traffic flows on the A120 in any event.

6.71 The junction of the extended Bradwell Quarry site access road, which would be used to access the site, and the A120 would operate satisfactorily in the relevant design year (2018). Subject to the imposition of the proposed restriction to 404 HGV movements daily, there would be no material difference between the RCF and eRCF in terms of impacts on the capacity and safe operation of the A120.

6.72 The junctions of the access road with Church Road and Ash Lane will be improved. Both crossings have a good safety record, and the proposed improvements have the potential to further improve their performance.

6.73 Visibility on the Church Road south approach has been identified as the most critical sight line. It is agreed that the standards set out in Manual for Streets is applicable as this is a lightly-trafficked rural road. This document requires a minimum 60m 'y distance', which is achievable. No substantial issue remains in respect of these minor road crossings.

6.74 Objectors have also expressed concern about the possibility of HGVs diverting onto local roads and travelling through local villages. However, as indicated above, HGV deliveries and despatches to and from the site would be under the control of the plant operator and the proposed HGV routing agreement, which would be effective from the opening of the plant, would ensure that rat-running would not occur under normal circumstances.

6.75 In conclusion, it has been shown that the proposal accords with relevant development plan policy in the EEP (Policy T6), the WLP (Policies W4C, W10E & W10G) and the BDLPR (Policies RLP 49, 50, 52, 53, 55 & 75), bearing in mind, so far as the BDLPR is concerned, that the proposed development has specific

characteristics and locational requirements which should be taken into account when assessing compliance with these policies. There is no material difference between the RCF and eRCF in highways and transportation terms.

Landscape and Visual impact

6.76 The landscape character of the application site and its surroundings is derived from its use as a World War II airfield and an existing large quarry. The heritage significance of the airfield is assessed at Document GF/32. Although it is of some local historical significance, much of the airfield and its military buildings have disappeared and consequently it is not considered to be a particularly good surviving example of a World War II military airfield. The quality of the landscape is ordinary; its character as Essex plateau farmland has been degraded, and its sensitivity to change reduced. As the site lies on a high open plateau the perceived visual envelope of the development would extend over a considerable distance. However, there are relatively few residential properties within this envelope. The site does not lie in a designated or nationally protected landscape area, though the existing site access road passes through the Upper Blackwater Special Landscape Area which is subject to the protection afforded by BDLPR Policy RLP79. Isolated woodland blocks assist the application site's visual containment and all trees on site are protected.

6.77 The proposed facility would have few sensitive visual receptors. There are no residential properties in close proximity to the proposal and of the footpaths within the development's visual envelope, only FP8 passes in close proximity to the proposed eRCF building. The principal means of minimising the visual impact of the proposed buildings and integrating them into the landscape would be as follows:

- (i) their construction would be largely below existing ground level;
- (ii) the facility would be no higher than the existing hangar with the building design reminiscent of it;
- (iii) cladding materials would be dark and recessive;
- (iv) the substrate of the green roof would be colonised with mosses and stone crops;
- (v) the retained woodland would be managed to improve its diversity and screening quality, and new woodlands would be created; and,
- (vi) new hedging would be planted along the northern site boundary and sections of the proposed access road.

6.78 Only one property (Deeks Cottage) would experience moderate adverse visual impacts as a result of the proposed facility during construction and the early years of the facility's operation. Over the same period, only 4 other individual properties (The Lodge at Allshot's Farm, Haywards, Heron's Farm and Sheepcotes Farm) and a limited number of properties on the eastern edge of Silver End would experience minor adverse visual impacts. Users of footpath 35/68 to the north of the site would experience moderate adverse visual impact at Year 1 of operation, with other paths in the area assessed as minor adverse impact. These impacts would generally arise as a result of the new building projecting above the confines of the existing woodland screen. The proposed new hedging and woodland would take time to mature, but within 15 years they would adequately screen the proposed facility (other than the upper section of the stack) from nearby visual receptors.

6.79 Objectors have expressed concern about the possibility of dewatering of the existing woodland that would be retained adjacent to the excavation which would accommodate the eRCF. However, clay is the dominant material in the soils beneath the woodland blocks. The woodland growth is separated from the underlying sand and gravel by over 6m depth of boulder clay. The woodland trees are not dependent upon the groundwater locked in any aquifer below ground, but are reliant upon moisture held within the subsoil and top soil that overlies the boulder clay. Any dewatering related effects that occurred in the sand and gravels would not have an impact upon the woodland trees.

6.80 Notwithstanding this, it cannot be entirely discounted that the proximity of the proposed retaining wall to the trees would not have some impact on the water regime which is critical to the trees, particularly during construction. As a precautionary measure, selective coppicing would be undertaken to reduce the water demand of the trees closest to the wall. This would reduce transpiration and make the coppiced trees better adapted to any potential reduction in water supply. Such management would in any case be complementary to the management likely to be prescribed for increasing biodiversity in the woodland habitat, delivered in accordance with the Ecological Management Plan.

6.81 The development of the CHP capacity necessarily involves the provision of a chimney stack. It is acknowledged that this would be a noticeable addition to the landscape, and would be visible over a wide area given the Site's location on a high, flat plateau. However, it would be seen only as a small element of the overall view, although it is accepted that users of FP8 in particular would be conscious of the presence of the stack and associated plant. The impact of the proposed stack would be mitigated by:

- (i) the quality of the landscape in which it would be sited and its reduced sensitivity to change;
- (ii) the lowering of the stack into the ground resulting in height of only 35m above ground level;
- (iii) the cladding of its upper part in stainless steel with a reflective finish to mirror surrounding light and weather conditions, which would help to minimise the perceived scale of the stack and its visual impact;
- (iv) the presence of existing and proposed additional woodland to the south - it would protrude about 20m above the average height of the retained existing trees;
- (v) its remoteness from sensitive receptors; and,
- (vi) the absence of a visible plume.

6.82 Because the eRCF would be located in a light sensitive area, detailed consideration has been paid to minimising the risk of light pollution. Measures that would be taken include the installation of external lighting below surrounding ground level, the direction of light being downwards, and the avoidance of floodlighting during night time operations. Timers and movement sensitive lights would be fitted to the exterior of buildings to provide a safe working environment when required. The plant would only operate internally at night.

6.83 The proposed extension to the existing access road would be constructed in cutting and would run across the base of the restored quarry, therefore lights from vehicles travelling to and from the eRCF within this section would be screened from

view. An independent review of the lighting proposals (Document GF/2/D/2) puts forward a number of recommendations to further minimise the impact of external lighting and concludes that with the incorporation of these amendments the impact of the eRCF on the night sky would be minimal. The Technical Note on Lighting (Document CD/17/1), prepared in response to the objectors representations at Document CD/16/4 indicates that the final lighting design would conform to the requirements of any planning conditions. However, it is intended that:

- luminaires located around the eRCF buildings would be fixed at a maximum height of 8m above the finished surface level of the site;
- there would be no upward light from use of the proposed flat glass luminaires mounted at 0° tilt;
- the weighbridge would be illuminated;
- the lighting installation would be fully compliant with the requirements of the proposed 18.30 to 07.00 curfew;
- there would be no need to provide illumination of the 'high level access road' as maintenance and repairs in and around this area would be provided during normal daytime working hours; and,
- internal lights would either be switched off or screened by window coverings during night time operations.

6.84 The final design of the lighting scheme would incorporate these amendments, subject to conformity with the requirements of planning conditions.

6.85 In conclusion on the overall subject of the impact on the landscape, it is accepted that visual harm is inescapable in the context of the provision of a major waste management facility. However, the issue is one of degree. The degree of harm that would result in this instance is remarkably limited. The low levels of visual impact arising from such a large-scale proposal confirm that this site is ideally suited to the proposed use. It is concluded that the eRCF proposal accords with relevant policies in EEP (Policies ENV2 & ENV5), WLP (Policies W10B, Q10E & W10G) and BDLPR (Policies RLP 36, 65, 78, 79, 80, 81, 86, 87 & 90).

6.86 A postscript arises in the context of landscape and visual impact. Should it be necessary for the stack to rise 40m above ground level, the additional 5m would be imperceptible and have no impact on the appraisal of landscape and visual impact in the ES. The SoS is invited to confirm that he would not regard the addition of 5m to the stack as itself unacceptable.

Ecology

6.87 The baseline surveys revealed a number of species of nature conservation value and habitats of interest on the site, including semi-improved neutral grass land, semi-natural broadleaved woodland, the River Blackwater, ponds inhabited by great crested newts, and a variety of bird species and bats. Development of the eRCF would result in the removal of some of these habitats and disturbance to associated flora and fauna, but significant areas of habitat would remain. Significant mitigation, compensation and enhancement measures are proposed to address the effects of the eRCF.

6.88 The applicants are committed to a range of ecological enhancements that go beyond compensation. These measures include:

- 3.4ha of proposed new woodland;

- 2km of hedgerow planting linking to semi-natural habitats off-site;
- the creation or enhancement of about 7.8ha of open habitat to be managed for nature conservation (2.8ha species-rich neutral grassland and about 5ha of open habitat incorporated into the green roofs); and,
- ponds managed for great crested newts and buildings refurbished to provide specific roosting opportunities for bats.

6.89 The positive management of existing habitats for nature conservation would provide immediate benefits and, as newly-created habitats become established and available for management, the scope exists to contribute significantly towards biodiversity targets set in the EEP. The Ecology Summary Table at Document GF/8/B/1 shows a positive residual impact for three of the key habitat features at the Site, namely woodland, scrub and hedgerow network; open habitats; and ponds, which would support great crested newts. Disturbance to legally-protected species would be minimised or avoided.

6.90 NO_x concentrations as a result of emissions from the eRCF would be very small and the impact on vegetation would be negligible. Predicted concentrations as shown in Document GF/6/D are less than 2% of the critical level for the protection of vegetation.

6.91 The proposed additional woodland planting would take several years to mature; but it is nonetheless apparent that the introduction of active management would result in immediate biodiversity benefits. Cumulatively, the eRCF would result in a positive residual impact, as reflected in the Ecology Summary Table at Document GF/8/B/1. In terms of development plan policy, the eRCF accords with EEP Policy ENV3 and WLP Policy W10E, and accords or does not conflict with BDLPR Policies RLP 78, 80, 81, 82, 83 & 84. There are additional positive benefits to biodiversity as a result of the eRCF compared with the RCF.

Issue 2: Design

6.92 The approach to the design of the eRCF is described in the Planning Application Supporting Statement (PASS) and the Design and Access Statement. A site appraisal was undertaken at the outset, in accordance with BDLPR Policies RLP 90 & 91. It confirmed that the proposed design should reflect and enhance the local distinctiveness of this location in accordance with PPS1, 7 & 10. The design reflects that of the World War II hangars. Dark coloured cladding materials are proposed because they are recessive in the landscape and the building would be viewed against a dark backdrop of existing woodland. Construction of the roof as a green roof would further reduce the building's visual impact.

6.93 Another key concern driving the design has been the minimisation of the extent of visual intrusion. The sinking of the main building into the ground, retaining and supplementing peripheral trees and planting, and the use of a long, low, continuous profile have been employed as means to this end.

6.94 The design principles, location, layout, scale, dimensions and exterior design of the eRCF are essentially the same as the RCF, with a deliberate intention to minimise the changes between them, other than to enhance the project. CABE commented in a consultation response dated 25 October 2006, albeit in relation to the RCF, that the location was suitable for a waste management facility and that the proposed architectural treatment and sinking of the building and approach road into the ground

raised no concerns (Document GF/2/B/1). CABE was consulted specifically on the eRCF but did not respond, which suggests that CABE has no objection to the latest proposals.

6.95 A comparison of the RCF and the eRCF shows that the only significant change is the addition of the CHP stack. The objectors' focus on this feature supports this conclusion.

6.96 The design aspects of the proposal are appropriate for the location and provide reasonable mitigation for the visual impact which any waste facility of this kind is bound to have. Accordingly the proposals comply with design guidance in PPS1, and the principles set out in 'Designing Waste Facilities' (DWF) (Document CD/8/9), albeit that they inevitably pre-date that document. In particular, the eRCF embraces the design attributes of: functionality in use; build quality; efficiency and sustainability; designing in context; and aesthetic quality. Whilst each waste management process within the eRCF would benefit from its integration with others, there is sufficient capacity in each of the key processes to allow for variation thereby providing flexibility of use. Document GF/38 describes the flexibility of capacity which is inherent in each of the processes. The design of the MRF allows for upgrades in the eRCF's process which would meet potential changes in the type and composition of waste imported to the site. The MBT would have five autonomous process lines. In relation to the MDIP, minor modifications could be made to allow tissue paper pulp to be produced and opportunities exist to introduce a secondary treatment of the sludge arising from the de-inking process to recover a valuable secondary aggregate suitable for re-use within the aggregates market.

Design for climate change

6.97 The Climate Change Supplement to PPS1 requires proposals to make a full and appropriate contribution to climate change. Reducing carbon emissions forms part of Defra's waste strategy (CD/8/1) and part of ECC's JMWMS (Document CD/8/2)

6.98 Detailed computer modelling to assess the overall carbon balance, or global warming potential of the proposal, expressed in kg of CO₂ equivalents has been undertaken using the EA's WRATE Life Cycle Assessment Model. In order to compare results, 3 scenarios have been modelled, namely the baseline case (without either the eRCF or the RCF); inclusion of the RCF; and inclusion of the eRCF. The assessment indicates that the eRCF proposals would result in a significant reduction in emissions of CO₂. Following discussions with an expert on WRATE from ERM, the carbon benefits of the proposals are agreed and set out in Document GF/27. This indicates that the total savings of CO₂ by 2020 would be in excess of 70,000 tpa. This compares favourably with the 37,000 tpa savings from the RCF and even more favourably with the baseline scenario. The baseline scenario is identified as saving 4,117 tpa of CO₂ in 2020 partly on the basis of active waste recycling programmes already in place in Essex. However, the baseline savings are only 6% of the savings which the eRCF would produce. The eRCF scenario has a considerably greater environmental performance than the other scenarios modelled.

6.99 It has been suggested that decoupling the CHP, the MDIP and the RCF would have advantages. However, this fails to recognise that the eRCF power supply to run the entire plant is self generated at a lower carbon emission rate than electricity drawn from the National Grid. Decoupling the CHP from the rest of the scheme

would require 25MW of electricity from the National Grid, (with a higher carbon footprint), to power the waste management processes. Moreover the heat output from the CHP would be substantial.

6.100 The UK Renewable Energy Strategy (Document CD/8/4) sets out the Government's target to produce 15% of our energy from renewables by 2020 and identifies the planning system as central to its achievement. PPS22 makes clear that energy from waste is considered a source of renewable energy provided it is not the mass burn incineration of domestic waste. Document GF/37 addresses the concern of FOE that the recovery of energy through the CHP may not meet the formula for R1 recovery operations set out in Annex II of Waste Directive 2008/98/EC (Document CD/4/2), which does not come into force until late 2010. An R1 recovery operation is where the waste is used principally as a fuel or other means to generate energy. The R1 category includes incineration facilities dedicated to the processing of MSW which have an energy efficiency equal to or above a figure of 0.65 for installations permitted after 31 December 2008. The energy efficiency figure is calculated from a formula set out in the Appendix to the Directive. The formula gives a figure of 0.7732 for the CHP to be provided at the eRCF, which easily meets the requirement for classification as recovery.

6.101 The use of SRF in the proposed CHP plant, whether from the Basildon proposals or the application site itself, and the export of electricity to the National Grid would therefore contribute to meeting the Government's target. This contribution is increased significantly by the proposed co-location of the MDIP and its proposed consumption of heat from the CHP plant. Granting planning permission for the eRCF is therefore in accordance with PPS22 and the UK Renewable Energy Strategy, as well as the WSE 2007.

Issue 3: Whether the proposal is consistent with the advice in PPS7

6.102 Amongst other things, the eRCF proposal involves the loss of 1.77ha of woodland and its replacement with 3.4ha of new woodland planting, including 1.2ha outside the application site. The design seeks to minimise visual impact and reinforce local distinctiveness, and to ensure that changes from RCF (in particular, the CHP stack) do not result in material visual harm. The eRCF proposal accords with the requirements of PPS7 to protect or enhance the character of the countryside.

6.103 The objective of siting development at a location where it can be accessed in a sustainable manner, and in particular by alternative modes of transport, should be addressed pragmatically. The proposed eRCF is not, by its nature, a development which would normally be expected in or on the edge of a town or other service centre. Moreover, there is an allocation for waste management development at this location. The key issue concerns HGV movements, rather than trips by employees or members of the public.

6.104 The impact of the proposal on the best and most versatile agricultural land must be balanced against other sustainability considerations. Soils stripped from agricultural areas would be re-used sustainably. Whilst the eRCF would result in the loss of almost 12ha of Grade 3a agricultural land, there would be a similar loss if the RCF were constructed. This loss of Grade 3a agricultural land represents 0.3% of the Bradwell Hall Estate holding. The permanent severance resulting from the extended access road would also occur in the RCF scheme. Woodhouse Farm is unoccupied,

and could not form a 'commercial unit of agriculture' under the present agricultural cropping regime.

Issue 4: PPS10

6.105 The eRCF is consistent with the key planning objectives set out in PPS10. It would help to deliver sustainable development by driving waste management up the waste hierarchy and addressing waste as a resource. It would reduce the need for disposal by landfill and would recycle waste into marketable products. Moreover, it would have benefits in terms of climate change. It would also contribute towards ensuring the timely provision of sufficient waste management facilities to meet the needs of the community and assist in the implementation of ECC's strategy to provide a framework within which the community takes more responsibility for its own waste. The eRCF would contribute to the implementation of the national waste strategy.

6.106 A number of misconceptions have been presented in the objections to the proposal. These should be rejected. It is suggested that PPS10 can be substituted in the WLP policies for BPEO. This is incorrect. If specific plan policies are out of date, then those policies (e.g. W7G) should be given little weight and the policies in PPS10 should be applied.

6.107 The concept of community engagement and self-sufficiency does not require that facilities should be directed solely to the local community, or even the district. In many cases, waste management needs to be carried out on a county wide basis. The eRCF would allow Essex to increase its provision of sustainable waste management and provide greater means to secure increases in recycling and recovery and reduce carbon emissions. It is true, as the FOE points out, that a continued increase on minimisation, recycling and composting will improve the UK's position in climate change terms and in the reuse of beneficial material, but the eRCF proposals are part of the means by which improvements in sustainable waste management could be realistically achieved. Development control inquiries are not the means to achieve policy change, as the FOE appears to think.

6.108 Moreover, although the community should be engaged by the process, and their concerns taken into account, it does not mean that there must be unanimous community support. As in the present case, concerns of the community have been met so far as possible in terms of mitigation measures. The community's needs for waste management would in part be addressed by the eRCF.

6.109 The S106 provisions would create a process for community liaison with regard to the operation of the eRCF. The applicants have agreed to supply emissions monitoring information through the liaison committee.

Air Quality

6.110 Objectors have incorrectly claimed that air quality impacts would not be assessed until the EP application is made. There has been a considerable degree of technical assessment of the air quality and health impacts of the proposal.

6.111 PPS 10 indicates that modern, appropriately-located, well-run and well-regulated, waste management facilities operated in line with current pollution control techniques and standards should pose little risk to human health. Insofar as PPS10

advises that planning authorities should draw from Government Advice and research, the Health Protections Agency's recent publication of "*The Impact on Health of Emissions to Air from Municipal Waste Incinerators*" (September 2009) provides further reassurance (Document GF/9/D). That document indicates that "Modern, well managed incinerators make only a small contribution to local concentrations of air pollutants. It is possible that such small additions could have an impact on health but such effects, if they exist, are likely to be small and not detectable." The human health modelling presented in Chapter 3 of the Addendum ES (Document GF/12) confirms that the risks to human health from the proposed eRCF are negligible since the predicted daily exposure for all contaminants of potential concern is less than the relevant toxicological benchmark.

6.112 A comprehensive assessment of emissions to air from the proposed eRCF has been undertaken and described in Documents GF/6, Chapter 11 of the ES and the Regulation 19 Submission. Dispersion modelling has been used to predict airborne ground level concentrations. With a stack height of 35m, the predicted pollutant concentrations would be substantially below the relevant air quality objectives and limit values, except for arsenic. However, the assumed emissions of arsenic were substantially overestimated. In the model analysis, metal emissions were specified in three groups. Group 3 consisted of nine metals, one of which was arsenic. It was assumed for the purposes of the model that each individual metal would be emitted at the emission limit for the group as a whole. This was an extreme worst case assumption, and clearly implausible, as it could result in an emission nine times the emission limit for the Group 3 metals. Using this overestimate, in conjunction with a particularly stringent air quality limit value for arsenic due to be implemented in 2012, resulted in an exceedance of the annual mean limit. However, given the unrealistic overestimate of arsenic emissions, it would be more appropriate to specifically limit the emissions of arsenic, as opposed to increasing the height of the stack which would have limited benefit. Realistic estimates of arsenic emissions based on sampling and analysis of emissions from waste incinerators elsewhere show that arsenic levels would be significantly lower than that assumed in the dispersion modelling assessment.

6.113 Examples of contour plots using a single multi flue stack for various potential pollutants can be found at Document GF/6/B/13 and GF34. The impact of stack emissions from the eRCF would be controlled by the monitoring of stack emissions. This is a requirement of the Waste Incineration Directive (WID). The WID requires continuous monitoring of some emissions such as NO_x, CO, particles, volatile organic compounds, HCl, HF and SO₂. For others which cannot be monitored continuously, periodic monitoring on a twice yearly basis is required. Compared to monitoring at specific receptors, this has the advantage of providing emissions data for a wide area rather than at a few specific locations and ensures that emissions and modelling data relates to the emissions from the plant. It therefore provides a greater degree of certainty about the impact of the plant.

6.114 In the case of the eRCF, the critical stack height for a single stack option is about 25m in terms of the dispersal of emissions. Above 25m, the law of diminishing returns applies. Stack heights depend on a range of many different factors and there is no indicative stack height for facilities in general. The height of a building is often critical in determining the necessary height of an associated stack. A stack height of 35m is adequate to meet air quality standards and should satisfy the EA's requirements.

6.115 No visible plumes are predicted to be emitted from the stack. The plume visibility assessment assumed a moisture content of about 7% for emissions from the gas engine and CHP plant multi flue stack. Information on plume visibility is provided in the ES Addendum at Chapter 2, Appendix2-1 Section 8 (Document GF/12).

6.116 With regard to traffic emissions, the proposed 404 additional HGV movements are the same as that proposed for the RCF. Based on the current Design Manual for Roads and Bridges (DMRB) screening criteria, a detailed air quality assessment is required if there is a change in vehicle movements above a set threshold and there are sensitive receptors within 200m of the road. This is not the case for the eRCF. Nevertheless, in response to concerns about possible changes in the split of traffic on the A120, an assessment of the air quality impacts due to traffic was undertaken using the DMRB methodology (Document GF/34). This demonstrates that there are no air quality concerns with a revised traffic split of 63%/37% in terms of direction travelled. Even with an extreme assumption that all of the development traffic accessed the site from an easterly or westerly direction, predicted traffic related pollutant ground level concentrations would be very small, and it can be concluded that development traffic would not have a significant impact on air quality.

6.117 With regard to the FOE's concerns regarding PM_{2.5} emissions, even if it were assumed that all particles emitted from the eRCF were comprised of the fine fraction (PM_{2.5}) the predicted maximum concentration of such material would be 0.14 µgms/m³ which is significantly less than the target value of 25µgms/m³. The predicted maximum concentrations of such material anywhere within the model domain are well below the target value and are effectively negligible (Document GF/6/D).

6.118 The deposition of pollutants to ground has been calculated to support the Human Health Risk Assessment (HHRA), which can be found in the Addendum ES (Document GF/12). That assessment indicates that the risks to human health are negligible since the predicted daily exposure for all contaminants of potential concern is less than the toxicological benchmark. SWFOE questioned the exclusion of certain pathways from the HHRA. Document GF/9/E indicates that additional modelling was undertaken to include the ingestion of homegrown pork, beef, and milk from homegrown cows. Again, the analysis demonstrated that the risks to human health would be negligible as the predicted daily exposure for all contaminants would be less than the relevant toxicological benchmark.

Noise, vibration, dust and odour

6.119 All waste recovery, recycling and treatment operations would be conducted within environmentally controlled buildings, sited below surrounding ground level. The buildings would be insulated with acoustic cladding to reduce noise. Vehicles would enter and leave the building through high speed action roller shutter doors. The buildings would be operated under negative pressure. The continuous 24 hour operation of the plant would ensure that the holding and storage times of unprocessed waste would be minimised. Bioaerosols and odours would be controlled contained, and managed, as would noise and dust.

6.120 No technical or other evidence has been provided which undermines the assessment of noise and vibration impacts, and the mitigation measures proposed for construction and operational noise, as set out in the ES at Chapter 12, the Addendum ES at Document GF/12, and the Written Representations in respect of Noise Impact Assessment by Daniel Atkinson at Document GF/2/D/1. The reception of waste would be limited to the operating hours of 07.00 to 18.30 on weekdays, and 07.00 to 13:00 on Saturdays, excluding Sundays and Bank Holidays. Processing would take place on a 24 hour, 7 days per week basis, but would be undertaken inside environmentally controlled buildings, partly constructed below surrounding ground level and 1.1km from the nearest settlement.

6.121 The summary in Document GF/2/D/1 indicates that there would be no significant impact from construction noise at neighbouring residential receptors. The three suggested methods of assessment given in BS 5228:2009 Part1: Noise, have been used to assess the impact of constructional noise. These all show that there would be no significant impact from construction noise at neighbouring residential receptors. The predicted construction noise level falls within the range 44 dB(A) to 52 dB(A), and thereby considerably below the threshold of 65db(A) set out for daytime noise construction in the code of practice with regard to the 5 dB(A) change method. Moreover, the assessment of construction noise has been undertaken on a worst case scenario. As the construction would involve excavations, it is highly likely that the change in landform would result in considerably greater attenuation of noise levels at receptors than those predicted. The concerns regarding vehicle reversing alarms and the sounding of vehicle horns could be adequately addressed by management controls, including for example broadband reversing alarms where the perceived impact of tonal reversing alarms does not arise.

6.122 With regard to operational noise, the summary indicates that noise levels would be very low both day and night. The assessment of the operational noise level at all receptor locations for both day and night time periods shows that noise levels of operations would be below the level of 'marginal significance' according to British Standard 4142. The physical noise levels predicted for daytime operations fall within the range of 22 to 34 dB(A), and for night time periods 22 to 30 dB(A). The subjective perception of noise levels in the range 25 to 35 dB(A) may be described as being the equivalent to a quiet bedroom or a still night in the countryside away from traffic. Such levels of noise would not have a material impact on the amenity of local residents.

6.123 With regard to the tranquillity mapping described by the CPRE, the site of the IWMF appears to be near the middle of the scale, suggesting that it is neither tranquil nor not tranquil (Document GF/35). The noise assessment has demonstrated that the current levels of peace and quiet would be maintained and proposals for lighting the new building would minimise light pollution into the night sky.

6.124 The change in noise levels attributable to increased road traffic flows resulting from the eRCF would be imperceptible, being considerably lower than 1 dB(A).

Issues 5 & 6: Conditions and Planning Obligations

6.125 The main contentious issue is the proposed condition requiring 80% of the feedstock for the MDIP to be sourced from the East of England region. It is disputed that this is either necessary or appropriate in terms of planning, policy or climate

change objectives. The MDIP would be the only one of its kind in the UK once Sittingbourne closes in 2011, and, regardless of the policy position in adjoining regions, it is undisputed that no other such facility will be available in the UK.

6.126 The MDIP could help to reduce the export of high grade waste paper; reduce the use of such waste paper for less sustainable paper products, and help avoid the greater use of virgin paper pulp. There is no sustainability or carbon emissions basis for suggesting that waste exports or pulp imports should be preferred to using the MDIP at the Site. In terms of climate change, it is agreed that the MDIP proposals would provide substantial CO₂ savings, based on an average 100km travel distance for the sourcing of waste paper rather than the sourcing area being restricted to the East of England Region. There are a large number of potential locations from which to source waste paper outside the East of England region which are comparable in distance from the application site as many of the settlements within the region. For example, within the East of England approximate distances are Bedford 103km; Norwich 118 km; Peterborough 138 km; Kings Lynn 150km; Hunstanton 171 km. To locations outside the region, approximate distances are Central London 90 km; Ashford 122km; Aylesbury 134km; Guildford 145km; and Northampton 155 km. This underlines the lack of rationale in selecting the region as the focus for the condition.

6.127 The only justification for sourcing waste from the East of England relates to the self-sufficiency argument. However, this is undermined by EEP Policy WM3, bearing in mind the uniqueness of the proposed plant. There is no justification for the proposed 80/20 split. It is unreasonable, and cannot be made reasonable by introducing a relaxation as suggested by ECC. Notwithstanding this, if an 80/20 split were considered to be necessary it would be preferable, more certain and proportionate to impose either a condition that the 80% portion should come from within a fixed distance (say 150km) or that it should be sourced from within the three neighbouring regions, namely the East, the South East and London. The additional ES information provided under Regulation 19 (Document CD/2/10) did not support an 80/20 criterion but stated (at paragraph 19.2.4) that the application was in conformity with EEP Policy WM3.

Issue 7: Other Matters

Listed buildings & the historic environment

6.128 The SoS is required, in the course of deciding whether to grant planning permission for development which affects a Listed Building or its setting, to have special regard to the desirability of preserving the building or its setting or any features of special architectural or historic interest which it possesses (Listed Buildings Act 1990, Section 66(1)).

6.129 The application contemplates the refurbishment and re-use of Woodhouse Farm, the Bake House and the Water Pump, all of which are listed. All are in poor condition. Although specific schemes of work have not been advanced at this stage, ECC and the LCG do not dispute that their refurbishment and re-use would enhance their character. That conclusion is not undermined by criticism of the way the building has been allowed to deteriorate without beneficial use.

6.130 The poor state of the buildings is such that any sensible and meaningful repairs would require Listed Building Consent. The buildings require structural

repair. BDC has an opportunity to require repairs to be undertaken, but no proposals have been put forward by any party which would indicate what is possible or necessary to bring the buildings back into a suitable state of repair.

6.131 In relation to the setting of these Listed Buildings, it is noteworthy that WLP Policy W8A contemplates major waste development within their vicinity. WLP Schedule 1, WM1, requires that screening and landscaping of waste management development should have regard to preserving the setting of the listed buildings at Woodhouse Farm. Such measures are employed in the eRCF proposal. The only listed buildings referred to in the Schedule at WM1 are those at Woodhouse Farm. This is a realistic reflection of the potential impacts on Listed Buildings and their setting arising from development of the preferred site. The evidence has confirmed in particular that the proposed eRCF would have no impact on the setting of other Listed Buildings, including Allshot's and Sheepcotes Farms, because of the distance between them and the impact upon them of existing development. The proposed eRCF does not affect the setting of Listed Buildings farther afield.

6.132 Objectors do not suggest that there is any material difference between RCF and eRCF in terms of impact on the setting of these Listed Buildings, except for the impact of the stack. The car parking proposed need not harm their setting.

6.133 A degree of consensus emerged during the course of the inquiry concerning the quality and accuracy of the photographic evidence available to assist the decision-maker on this issue: a particular example being that at Document GF/5/B/16. The stack, whilst noticeable above the trees from within the vicinity of Woodhouse Farm, would amount to a modest part of the wider view.

6.134 Albeit limited weight attaches to draft PPS15, there was no dispute that the benefits of the proposed eRCF in terms of low carbon energy production and the extent to which the design has sought to contribute to the distinctive character of the area should weigh positively so far as impacts on listed buildings are concerned. The climate change issues found in draft PPS15 however are required to be considered by the PPS on Planning and Climate Change (Supplement to PPS1).

6.135 In summary, the proposed parking and CHP stack would not have a significant adverse impact on the setting of nearby Listed Buildings and the benefits of restoration would far outweigh the resulting impacts.

6.136 Turning to the setting of the Silver End Conservation Area, it is acknowledged that the edge of the Conservation Area, shown on the drawing at Document G/5/D/10, is well-screened by vegetation and trees. The proposed eRCF would preserve the character and appearance of that small part of the Conservation Area that flanks open countryside to the east.

The historic airfield

6.137 No aspect of the airfield use remains. All that remains are a number of items of infrastructure including some of the hard surfaced areas and some hangers. The airfield facilities themselves are not designated or protected in any way. The note at Document GF/32 indicates, the history of the airfield by B A Stait (1984) states that it has "no special claim to fame". There are no significant issues arising with regard to the heritage significance of the former airfield.

Minerals

6.138 The siting of the eRCF below existing ground level is essential to reduce its visual impact and there is an overriding need to extract the sand and gravel on the site in accordance with Essex Mineral Local Plan First Review Policy MLP4. The eRCF accords with Structure Plan Policy MIN4 because the mineral resource would not be sterilised.

Perception of risk to health

6.139 The Community Group simply highlights its concern on this matter. The potential additional pathways identified by FOE did not undermine the conclusions of the HHRA (Document GF/9/E). There was no challenge to the conclusion that the eRCF would pose negligible risk to human health.

Overall Conclusion

6.140 The proposals are needed now to address a significant current waste management capacity need and to achieve climate change reductions in a manner consistent with current policy. The fact that the proposals would not meet all the needs of Essex in terms of waste capacity does not allow the luxury of time to allow the gradual development of policy, as some such as the FOE would prefer to see. The eRCF would make a strategic contribution to sustainable development.

SECTION 7 - THE CASE FOR ESSEX COUNTY COUNCIL

7.1 The committee report to ECC's Development and Regulation Committee of 24 April 2009 (Document CD2/12A), is a reasoned document which explains the basis of the committee resolution to inform the SoS that the Council was minded to grant planning permission subject to a number of matters. ECC recognised that despite non-compliance with some policy, a whole raft of development plan and national policy guidance was supportive of the proposals. Moreover, when the physical impacts of the proposal were examined, it was judged that they had been minimised, and they would have no materially harmful effects. The officer's report acknowledged that it is necessary to facilitate the delivery of waste management sites in order to meet the demands of local and national planning policy, especially the objective of driving the management of waste up the waste hierarchy. This calls for a flexible approach to be adopted. The resolution to grant planning permission should carry significant weight in the planning balance.

7.2 The response of ECC's built environment department as part of the consultation process on the application on which the Local Councils Group (LCG) relies (Document LCG/8/2 Document JA1/4) was a preliminary response by the built environment department. The final response is one of "no objection", for reasons explained in the officer's report. The process shows careful and conscientious consideration of the proposals from the built environment team.

7.3 The statements of Lord Hanningfield, the Leader of the Council, to the effect that there would be no incinerator in Essex without a referendum are understood to

refer to mass burn incineration, which is not proposed here. In any event, this is not a planning matter. The proposal was and is to be assessed in accordance with planning policy.

Issues raised by the call-in and pre-inquiry note

7.4 ECC's case is set out in Document ECC/2 and the officer's report at Documents CD/12A and 12/B.

Issue (i) – the extent to which the proposal is in accord with the development plan

7.5 The proposal is seen as a departure from the development plan, firstly, because it extends beyond the boundaries of the site allocated for waste management in WLP Policy W8A and Schedule WM1, and secondly, because it is in conflict with countryside policies of the BDLPR, namely Policies RLP27 and 78. ECC considers that the MDIP would be an industrial activity in the countryside. However, these are not significant departures from the development plan.

7.6 A large part of the area where the buildings are proposed is allocated for waste management facilities. The proposed buildings would extend beyond the allocated site, albeit to a limited extent. However, the principle of developing a waste management facility at this location accessed off the A120 is supported by the development plan.

7.7 Moreover, the WLP allocation does not incorporate land for access and does not incorporate Woodhouse Farm. The former is a necessary part of any proposal and the proposals for the latter are clearly beneficial. The proposed lagoon is outside the allocated site area but is also present in the RCF proposal for which planning permission has been granted. The RCF permission establishes the principle of waste facilities extending beyond the allocated site. Seen in this context the departure is not a matter of significant weight. It is notable that the RCF facilities were supported at the strategic level by the regional planning body [Document CD3/2].

7.8 When considering the RCF proposal, it was reasoned that the allocation of 6ha was based on the area required for a typical mass burn incinerator facility, considered at that time to be about 2.5ha. At the time of the public inquiry into the WLP, the technologies of MBT and AD were not as fully developed as today, or the site area required to implement them appreciated. The current proposals seek to drive the treatment of waste further up the waste hierarchy than the RCF proposals by incorporating a CHP plant utilizing residues from the MBT to generate electricity for processing and treatment of waste, and to provide electricity to the National Grid. Although the building would be larger than recommended at the time of the WLP by the Inspector, the possibility of sinking a waste facility into the ground had not been envisaged. The guidance in the WLP on the size of buildings at the Rivenhall site is intended to address the visual impact of any such buildings. The substance of the policy has been met by the proposal to sink the buildings into the site, which would substantially reduce the bulk of the visible structures when viewed from outside the site. The principle of an incinerator and a chimney was not discounted by the Inspector at the WLP inquiry. (CD/9/1A page 109, para 37.19)

7.9 So far as the BDLPR countryside policies are concerned, the proposed MDIP would be located within the building envelope, a large part of which is within the

allocated waste site. It would not of itself add any impact to the proposal which would be different to the impacts that would arise from the 'core' waste facilities. Moreover, the distinction between waste development and industrial development is not clear cut. Waste management development could be seen as a subset of industrial activity, and again, this departure is not viewed as a matter of significant weight.

7.10 ECC's officers and committee did not reach a view as to whether the proposals comply with the development plan overall, as the proposal was considered to be a justifiable departure from certain discrete policies of the development plan. However, the officer's report identifies an extensive degree of policy compliance.

7.11 Need is a matter to be addressed under the development plan. WLP policy W8A indicates that waste management facilities will be permitted at the sites allocated in Schedule 1 subject to a number of criteria being met, including there being a need for the facility to manage waste arising in Essex and Southend. The consideration of need also arises in the guidance of PPS10. It is common ground between the main parties that the question of need should be determined in the context of the RSS figures for Essex's apportionment. This approach is required by PPS10, and reinforced by the June 2009 report of the Regional Planning Body (Document CD5/2). Those figures demonstrate a clear need for the facilities so far as they provide for MSW and/or C&I waste. The proposals comply with the RSS (policies WM1 and WM4) so far as the question of need is concerned. It is also agreed that the assessment of need should not be based upon the emerging revised Regional figures.

7.12 There is a need for the facilities even if the analysis is based upon the more conservative figures set out in the report on waste arisings and existing treatment capacity prepared by ERM in 2007 on behalf of the WPA (Document CD 10/3). Since the capacity analysis in the ERM reports are not reliable, and are likely to be an overestimate, the actual level of need would be greater.

7.13 Although no party supports the use of the consultation figures for waste arisings issued by the regional planning body (Document CD 5/8), both the applicants and ECC agree that even on the basis of these figures, a clear need for the facility exists.

7.14 The JMWMS (Document CD 8/2) is not technically a planning policy, but it interacts with planning policy because it represents the agreed strategy of the waste collection authority and the disposal authority on how the waste needs of Essex are to be met. The JMWMS clearly supports the development of MBT and AD facilities, and facilities to create SRF and to burn it to produce energy. It expressly endorses the proximity principle for the purposes of managing residual waste, which would include SRF. Moreover, it aims "to deliver an innovative and resource efficient waste management system for the county". The JMWMS is therefore supportive of the proposals. There is no proposal for a CHP in the county apart from the eRCF.

7.15 The OBCs 2008 and 2009 are not planning policy but an outline business case for the purposes of obtaining central government funding for the disposal of MSW. The RCF only dropped out of the OBC after 2008 because the county did not control the site, and therefore it could not be used as the reference case for the OBC. In addition, inclusion of a CHP plant in the OBC would exclude competition, because the

only site currently being put forward with a proposal for such a facility is the application site at Rivenhall. The significance of the OBC is that it evidences ECC's need and desire for an operator and site to handle its MSW contract. The RCF and the eRCF would be able to bid for that contract and the additional competition they would introduce would be welcomed by the WDA. It demonstrates that the eRCF could meet the county's need to dispose of its MSW, quite apart from its capacity to meet C&I waste arisings. The facilities contained in the OBC would not be adequate to dispose of all of the county's MSW arisings.

7.16 There is therefore a need for the type of facility proposed in order to achieve the national waste objectives set out in PPS10 paragraphs 1 and 3 and Policy MW1 of the RSS, and to achieve the recycling targets for Essex and the East of England, set out in Policy MW2 of the RSS. The proposed facility would help to deliver these objectives by moving waste up the hierarchy. It would recover recyclables, produce compost and reduce the need for disposal of residual material to landfill by using such material as a fuel for combustion in the CHP plant. It would also use imported solid recovered fuel (SRF) from other permitted waste management facilities in Essex, which might otherwise go to landfill. The scheme would generate electricity and provide a specialized facility for the recovery of recycled paper. In recovering paper pulp, the residues arising from the process would also be used as a fuel in the CHP, removing the need for offsite disposal and the potential for such material to be sent to landfill. The need for specialized waste facilities serving more than the local area is recognized in RSS policy MW3.

7.17 With regard to the need for the MDIP facility, the applicants have been open about the difficulties currently faced in sourcing sorted paper and card of the required quality from within the region. However, the provision of the facility is likely to stimulate greater recovery of paper waste from existing waste. It cannot be argued that there is no need for the MDIP given that it would be the only facility of its kind in the country and the material to feed it undoubtedly exists. RSS policy WM3 supports such specialist facilities and acknowledges that some compromise to the proximity principle may be appropriate in such cases. There is a balance to be struck between self-sufficiency and the proximity principle on the one hand, and the operator's need for commercial security on the other. This underlies ECC's structured approach to a condition relating to paper and card waste from outside the region (See paragraph 7.41 below).

7.18 In summary, most of the policies in the development plan are complied with, and to the extent they are not, the non-compliance is justified. In particular, the evidence demonstrates that there is a need for the facilities, and the application site is an appropriate location to accommodate that need.

Issue (ii): the quality of design and effect on the character of the area (including CD 8/9, Designing Waste Facilities (Defra, 2008)).

7.19 The proposal has been designed to reflect the site's history as an airfield. The 2 arched roof main buildings would reflect the design of a hangar, with green roofs to minimise their visual impact and provide potential habitat to replace some that would be lost as a result of the development. The proposal has been designed aesthetically rather than functionally. It reflects a previous use of the site to which the community attaches some significance and which is regarded as an acceptable and

proud part of its history. CAFE supported the design of the RCF proposal which has much in common with the eRCF.

7.20 Other aspects of good design include:

- (i) The sinking of the plant within the ground to reduce its visual impact. Such an approach would also reduce the visual impact of the access and enable the proposal to employ the minimal use of bunding and screen planting.
- (ii) The positioning and reflective finish of the stack so as to mitigate its visual impact.
- (iii) Minimal use of lighting on and around the plant.
- (iv) Measures to reduce the operational impacts, such as negative pressure within the building.
- (v) Extensive landscape mitigation and additional tree planting.
- (vi) Co-location of the SRF producing facilities with the CHP and MDIP plant.
- (vii) Taking the opportunity to refurbish and re-use the currently run down listed Woodhouse Farm.

7.21 The Defra guidance 'Designing Waste Facilities' (Document CD/8/9) acknowledges that getting waste facilities to "fit in" with the existing fabric is often inappropriate or impossible because of the scale of buildings involved. This should not be read as advising against buildings that do not fit in with their context. Rather, it is an acknowledgement that it would be inappropriate and unrealistic to judge the success of a design by reference to whether it fits in or not. Design of waste facilities need to be judged flexibly, recognising the inevitable limitations which their function places upon their design. The guidance also supports the use of imaginative solutions to minimise the impact of stacks, and advises that careful consideration be given to whether 'hiding' a new building is really appropriate, pointing out that "new buildings should not automatically be seen as a negative".

7.22 The proposal does 'fit in' with its setting. The main buildings and the stack have been thoughtfully designed to respect their context and minimise their impact. The main point of concern of objectors is the stack. It is impossible to hide the stack, but this need not be seen as a negative feature in the landscape. In any event, if it is accepted that there is a need for the eRCF then the stack is inevitable. In this case its impact has been minimised.

7.23 It is considered that there is an opportunity to enhance the sense of arrival at the facility by requiring details of materials and colours to be controlled by condition and by providing public art on the front of the building. The impact of the proposal could be further controlled by means of a legal obligation to maintain planting and provide additional planting adjacent to the southern boundary of the site as soon as possible after the issue of any planning permission.

7.24 Overall the scheme is of good design and would not have an adverse effect on the character of the area.

Issue (iii): The extent to which the proposal is consistent with PPS7

7.25 The site is not located within an area of particularly sensitive countryside and there are commercial and mineral developments in operation nearby. The site itself has features of previously developed land, being the site of the former airfield. The

principle of a waste management facility in this location served from the A120 is enshrined in the allocation in the WLP. The WLP inspector did not rule out an incinerator on the site, indeed WLP policy W7G expressly contemplates that such development may be acceptable. The RCF permission is a weighty material consideration so far as the acceptability of the size of the development and its impacts on the countryside are concerned, as it represents a fall-back position.

7.26 One of the main concerns so far as countryside impact is concerned is the effect of the stack. Its impact has been minimised through its location and design. The proposed height is understood to be the minimum necessary to comply with relevant emissions standards and the width allows a number of chimneys to be accommodated within the single stack.

7.27 The relationship of the MDIP facility with countryside policy is addressed above at paragraph 7.9. Its co-location with waste facilities maximizes the efficient use of energy. Moreover, the access to the site directly off the A120 is a requirement of the WLP, with respect to preferred site WM1. Moreover, the facility would be located centrally in terms of its ability to serve Essex.

7.28 The development would provide some enhancement of the countryside. Although about 1.6ha of woodland would be lost, some subject to TPOs, the proposal includes planting of approximately 3.4ha of additional woodland and 2kms of new hedgerow. About 19.1ha of open habitats would be lost, although the proposal includes the long term management of both existing and new areas of habitat, including the green roofs of the proposed main buildings. The proposal also includes the management of existing and proposed water bodies to enhance bio-diversity, together with mitigation measures with respect to various species, some of which are protected.

7.29 There would be a loss of some 12ha of best and most versatile agricultural land. Although the loss of such land should be avoided, the emphasis in the last 5 years has moved to soil resource protection. It is noteworthy that Natural England did not object to the proposal. Soils stripped from agricultural areas would be used on screening bunds; on new areas of woodland and grassland; and to enhance the restoration of agricultural areas within the adjacent quarry.

7.30 The refurbishment of the derelict listed buildings at Woodhouse Farm, bringing them back into beneficial afteruse, would be an enhancement of the countryside. Overall, it is concluded that there would be no conflict with the objectives of PPS7.

Issue (iv): The extent to which the proposal is consistent with PPS10

7.31 The proposals comply with the objectives set out in paragraph 3 of PPS10. The development would support sustainable waste management by providing a facility which would enable waste to be treated at a higher level of the waste hierarchy. The AD would create compost suitable for use in agriculture together with biogas for use in electricity generation. Methane generated by landfilling would be reduced. The MRF would ensure the recovery of recyclables. The MBT would shred and dry waste to allow recovery of recyclables in the MRF and produce SRF for the CHP. In turn the CHP would reduce the need for landfilling of residuals from the MBT as well as providing a facility to use other SRF produced in Essex. The CHP would also deal with residues for the MDIP facility.

7.32 With regard to self sufficiency, the facility would meet a need in the region to deal with MSW and/or C&I waste. The facility would meet the third objective by pushing waste up the waste hierarchy and helping to achieve national and regional recycling targets.

7.33 The application was supported by an EIA which included an assessment of the impact on health and the environment. It was subject to consultation with the EA, Natural England and the Primary Care Trust, all of whom raised no objection to the proposal. Subject to appropriate conditions and obligations, the impacts of the development could be adequately controlled or mitigated, and the proposal would pose no significant risk to human health and the environment.

7.34 The application was subject to full consultation with the public and consultees. The proposed technologies are in line with those identified in the JMWMS, such that if planning permission were granted the facility could compete for MSW contracts within Essex. The development would maximize the efficient use of energy generated at the site, by co-locating the MDIP with the CHP plant and thereby providing potential to achieve wide environmental benefits. This has in part given weight to the justification for a departure from development plan policies in terms of the site's location in the countryside.

7.35 The integrated nature of the proposal minimises the need for the export of residuals, including on-site use of SRF and paper pulp residues in the CHP plant. The proposals also include the on-site collection, recirculation and treatment of water, minimising the need for fresh water and for off-site treatment of dirty water. The design and layout supports a sustainable form of waste management.

7.36 The eRCF can meet the need to treat both MSW and C&I waste arisings, consistently with PPS10 paragraph 8. The need case supporting the proposal does not rely on "spurious precision" in relation to estimated waste arisings, as deprecated by paragraph 10 of the PPS. The need case is clear and comfortably met. It is based on the RSS and advice from the regional planning body.

7.37 The WLP identifies much of the application site for waste management facilities, without any restriction being placed on the type of facility in question. To that extent the WLP is consistent with the role of development plans as described in paragraphs 17 to 19 of PPS10.

7.38 The proposals meet the guidance in paragraph 24 of PPS10 relating to development on unallocated sites and there is no evidence that the proposals would prejudice the movement of waste up the waste hierarchy. In this respect the proposal is in accord with paragraph 25 of the guidance.

7.39 Although the MDIP facility may not be justifiable on the basis of need to process sorted paper waste arising entirely within the region, the underlying aims of sustainable development are met by this unique facility.

7.40 The CHP in particular would assist in reducing the amount of residual waste that needs to be consigned to landfill, and would generate useful energy from waste, consistently with the aim of using resources prudently and using waste as a source of

energy. For all the above reasons, the proposal is consistent with the objectives of PPS10.

Issue (v): Conditions

7.41 The suggested conditions that should be applied in the event of planning permission being granted are set out at Document ECC/7. The only condition which is contentious between ECC and the applicants is the condition relating to the proportion of imports to feed the MDIP facility. This condition is necessary to ensure that the applicants have an incentive to seek feed stock from within the region, and that an initial inability to do so does not result in a total abandonment of the proximity and self sufficiency principles for the future.

Issue (vi): Section 106 Obligations

7.42 Planning permission should be subject to a 106 agreement in the form submitted. Attention is drawn to the proposal for a community liaison group.

Issue (vii): Listed Buildings (Woodhouse Farm)

7.43 Woodhouse Farm is listed as a building at risk. It is in urgent need of care yet there is no proposal or prospect of any care being given to it apart from the eRCF or RCF proposals. Witnesses for the Local Councils Group and the Community Group accept that in principle the proposed refurbishment and re-use of the Farmhouse is a benefit. The form, specification and merits of any listed building application would be assessed by Braintree DC as the local planning authority. The quality of the restoration is therefore in that objector's hands.

7.44 The main issue of concern to objectors appears to be the effect of the chimney on the setting of the listed buildings. However, the chimney would only be seen in certain views and would be some distance away from the building. Overall the setting of the listed building would not be adversely affected. Notwithstanding this, the much needed refurbishment of the fabric of the listed building that would be brought about by the proposals would outweigh any harm to its setting.

7.45 The choice is between further decay of the listed building, or restoring it and bringing it back into active and beneficial use, when it would be seen and enjoyed by members of the public visiting the site. The effect on the listed building is therefore positive overall.

7.46 Objectors also refer to the impact on the Silver End Conservation Area, but this is so far away from the site that it would not be harmed by the scheme.

Issue (viii): The fall-back position

7.47 The RCF is relevant in two main ways. Firstly, as a fall-back and, secondly, as a recent planning permission for similar development on an identical site. The fall-back position was not taken into account in ECC's consideration of the scheme. No assumptions were made as to whether the RCF would proceed if the eRCF were refused permission. However, the second of the two factors was taken into account by comparing the merits of the eRCF to those of the RCF.

7.48 The RCF would not be an unacceptably harmful development. It is supported by current planning policy and justified on its merits. Moreover, it is consistent with and would further the aims of the JMWMS. There is no reason to doubt the applicants' evidence that it would implement the RCF if the eRCF were refused permission, particularly given the position on need. The RCF therefore represents a fall-back position for the site against which the eRCF falls to be considered.

7.49 It is also relevant as a recent planning decision for similar, though not identical, development having similar environmental impacts, covering a similar site, and which had been assessed in the same policy framework as the eRCF. The RCF sets a benchmark against which the differences between the RCF and eRCF should be assessed. The RCF permission demonstrates the acceptance of the principle of built waste management facilities on a site extending beyond the boundaries of the WM1 allocation, which was supported at the regional level (Document CD 3/2). It also demonstrates an acceptance of the visual and other environmental impacts, including traffic impacts that would be introduced by the RCF. The real difference between the two proposals is the chimney stack.

7.50 Objectors have concerns about reliability of the applicants' 404 HGV movement cap, and have sought to cast doubt upon the relevance of the RCF as a fall-back so far as traffic movements are concerned. The applicants indicate that they could control HGVs entering the site by contractual means. The proposed condition limiting the site to 404 HGV movements is clear, precise and enforceable. It also provides an incentive to the applicants to ensure that vehicle movements are used efficiently. It supports sustainable transport objectives. In contrast, the RCF permission contains no condition expressly setting a movement cap. The 404 HGV movements cap would therefore be a benefit.

Issue (ix): Flexibility

7.51 Draft condition 19 would allow some control over the detailed configuration and layout of the plant.

SECTION 8 - THE CASE FOR THE LOCAL COUNCILS GROUP

The need for the facility

8.1 For policy reasons the applicants must demonstrate need. However, even if need is demonstrated, it has to be weighed against harm that may arise, for example, the harm that would be caused to the countryside. The application proposes an IWMF that is too large to be accommodated on the preferred site in the WLP, and its capacity would be far greater than the perceived need.

8.2 There are two/three aspects of need to examine, namely that relating to MSW/C&I waste and to the paper pulp facility. The position in respect of MSW is by and large clear. ECC as WDA are satisfied as is evidenced by their OBC 2009 (CD/8/6) that a single MBT plant at Basildon will give them sufficient capacity to deal with likely MSW arisings. There is therefore no "primary" need for this facility to deal with MSW. The only advantage of the application proposal is that it would create more competition and provide a "home" for SRF arising from Basildon. These aspects might perhaps be considered as secondary or ancillary need.

8.3 However, very little weight should be given to these two points. ECC can and will ensure competition by allowing all potential operators to have access to the Basildon site on equal terms. Furthermore ECC are comfortable in not determining at this point in time the destiny of the SRF arisings. Although, at present, there is no other facility in Essex for securing energy from the SRF, ECC's strategy is to deal with that in due course. The JMWMS (CD/8/2) indicates that ECC will deal with it as far as it would be consistent with the proximity principle. Rivenhall may not be the most suitable location having regard to such principle. Moreover, SRF is a valuable fuel and there can be no doubt that there is a developing market for it. Other sites such as Sandon may come forward.

8.4 As regards C&I waste, it is acknowledged that the needs argument of the applicants are more persuasive. However, even on the 2007 analysis, the case for an MBT dealing with C&I waste is marginal, under the "best case" scenario put forward in the 'Waste Arisings, Capacity and Future Requirements Study: Final Report (February 2007)' as described in Document LC/1/A. The best case scenario assumes 0% growth in waste production, C&I waste generation remaining at 2002/3 levels. In contrast the worst case scenario does not reflect the current downturn, nor does it consider the overall thrust of current waste management policy. It represents a maximum level of C&I waste growth, assuming the economy continues to grow and no waste reduction measures are implemented.

8.5 One MBT facility may be justified, but this could be met by the ECC resolution to grant permission for development at Stanway. The 2009 analysis, adjusted, shows the same result, namely that there is "headroom" or overcapacity taking both MSW and C&I waste into account.

8.6 The current adopted RSS policies are based on anticipated levels of waste arisings which are simply not occurring at present. The actual arisings are significantly lower than estimated and the emerging regional studies suggest quite strongly that general C&I waste arisings are unlikely to increase significantly above present volumes in future. This has prompted a review of policy which is continuing with discussions with the individual WPAs. ECC acknowledges the need to take account of the EERA findings, in progressing work on the Waste Core Strategy. Caution should therefore be applied when giving weight to any need based on clearly outdated estimates.

8.7 With regard to the proposed MDIP, it has been estimated by Urban Mines that 437,000 tonnes of paper and card are currently recovered in the East of England for recycling (P72-CD/10/1). This figure is not disputed. Moreover, at best, only about 36% of this recovered paper would be of a suitable quality for the MDIP proposed i.e. 157,000 tpa. This is significantly (203,000 tpa) less than the required input and the recovered paper is already being used in other processing facilities. Even this figure is too high and only around 18-20% of recovered paper is within the essential uncoated wood free grades. The applicants therefore have to rely on their view that additional resources can be obtained by improving the rate of recovery of paper consumed in the East of England, by obtaining paper passing through the region for export and from the supply to an existing MDIP at Sittingbourne which is to close, but which sources most of its material from outside the East of England. The applicants are being over optimistic in this regard.

8.8 It is not disputed that potentially higher volumes of paper consumed in the East of England could be recovered for recycling, although there is no certainty as to the additional percentage which could be recovered. This is recognised in the report entitled 'Market De-inked Pulp Facility - Pre Feasibility Study' (CD/10/2) published by The Waste and Resources Action Programme (WRAP) in January 2005. This notes that previous research has shown that in the office sector there is an irretrievable loss of around 15% of all office paper. Moreover, it would be uneconomic to collect a proportion of fibre, particularly from small businesses employing up to 10 people, and some fibre is already used by mills with integrated facilities. It must also be borne in mind that planned and incremental increases in the paper industry will result in competition for recovered paper feedstock.

8.9 Potential feedstock of waste paper can be "lost" because it may be too contaminated and because of difficulties in collection and sorting. These factors must be viewed against a background where only a small proportion (36%) of recovered paper is likely to be suitable for the proposed MDIP facility. The applicants' approach appears to be over ambitious.

8.10 Similarly, there is uncertainty as to the paper which can be "diverted" from export. In policy terms, it is questionable whether waste paper arisings which have occurred in other parts of the country should be attracted to Rivenhall having regard to the proximity principle and communities taking responsibility for their own waste.

8.11 With regard to the existing MDIP facility at Sittingbourne, it is recognised that this is scheduled to close in 2011. However, there is no firm evidence to show that its current input would be available to Rivenhall. Furthermore, there is likely to be a three year gap between Sittingbourne closing and Rivenhall becoming operational. The current supply would almost certainly be attracted to other markets. The demands of the tissue making market could well intervene. Feedstock would have to be obtained from the market and the applicants rely heavily upon their ability to offer competitive prices. Their assertion to be able to do so is largely unproven. A full viability appraisal has not been produced.

8.12 In conclusion, there is significant doubt as to whether there is a realistic or adequate supply available within the East of England and if this scheme were permitted it is likely that a significant proportion of the paper would be attracted from outside of the region which would not of itself be desirable. This is demonstrated in the applicants' wish to amend or remove the original terms of suggested Condition 27 (now renumbered as Condition 30).

8.13 There are no free standing MDIP facilities in the UK and for efficiency and market reasons, it is much more likely, as indicated in the WRAP study (Page 143 Document CD/10/2), that these would be built as part of integrated paper mills. Historically, MDIP mills have been difficult to justify on economic grounds. It is cheaper for a paper mill to utilise de-inked pulp that has been produced on site in an integrated process. This avoids additional processing costs, such as drying prior to transportation.

8.14 The overall need for the IWMF has not been fully demonstrated, and insofar that any need has been demonstrated, the weight to be applied is not significant.

Landscape/visual impact

8.15 The site lies within open countryside in an area that is regarded as tranquil. Even the applicants' landscape witness accepts a description of "relatively tranquil". Generally the site forms part of a high open plateau from where and across which there are distant views. It is not accepted that the remnants of the World War II airfield, existing industrial uses, and the existence of gravel workings has "despoiled" the area to the extent suggested by the applicants. Although there are a number of businesses in the locality, such as those using former agricultural buildings at Allshot's Farm, these businesses are well established and are generally contained within defensible curtilages and do not impose themselves on the countryside to an extent that they detract from its open and rural character .

8.16 The Landscape Character Assessment undertaken by Chris Blandford Associates (Doc GF/5/B/4) describes the area away from the main roads and the sand and gravel pit as tranquil. It also indicates that the character of the area has a moderate to high sensitivity to change. Clearly there is some doubt as to whether the site could accommodate the proposed development without significant consequence.

8.17 The proposed building and other structures would have a footprint of more than 6 ha, and the development would result in the remodelling of an even greater area together with the loss of 1.7 hectares of semi-mature woodland and other associated engineering works. It is a major development.

8.18 There is a well used network of footpaths in the vicinity of the application site and the development would have a significant impact in particular on users of footpaths 8 and 35. For example, walkers on footpath 8, apart from seeing the stack would also, when approaching the site from the south, be likely to see the rear of the AD tanks, particularly in winter. Moreover as walkers passed the listed buildings at Woodhouse Farm, the backdrop would be dominated by the stack. Although a hedge would partially screen views, walkers on footpath 35 would on occasions be able to see the front of the building, which would be some 200m wide and 20m in height.

8.19 The proposed development would have a detrimental impact on the setting of the listed buildings at Woodhouse Farm. The proposed stack would tower over Woodhouse Farm, and its impact would be even greater if the EA require an even taller stack. The development would be visible over the tops of existing trees. The development would also be visible from Silver End and detrimental to the setting of the village.

8.20 Away from the site, views of the building, much less the stack, would be possible, as demonstrated in the montages at locations 2 and 5, namely Sheepcotes Lane and Cuthedge Lane, in Document GF/5/B/11. It is clear from these montages that the building would be visible at both locations even at year 15. Moreover, these montages should be interpreted with caution, many, for example, do not show the correct proportions of the proposed stack. The stack is considerably wider than shown on many of the montages. Moreover, the rate of growth of new vegetation is unlikely to be as rapid as anticipated in the montages. For example, the applicants accept that to effectively replace some of the lost woodland would take around 40 years.

8.21 The montages at location 6, (Drwgs 8.7.11 and 12 in Doc GF/5/B/11), taken from Holfield Grange to the north of the A120, more than 3 kilometres from the site, show that the stack and the front of the building would be visible for significant distances. Drawing number GF/5/D/9 shows the stack potentially having an impact over a very large area.

8.22 Document CD/16/3 sets out the LCG's view that the applicants have not adopted a realistic approach to optimising the stack height. It is likely that a stack significantly taller than 35m in height would be required with consequential increased visual impact. The applicants should have engaged in a dialogue with the EA prior to the inquiry in order to establish the likely range of the required stack height. Planning permission should not be granted with such significant uncertainty remaining over the stack height. A further application to ECC for an increase stack height would not meet the requirements for certainty and good planning as set out in national guidance.

8.23 The Defra Guidance entitled 'Designing Waste Facilities – a guide to modern design in waste' (Document CD/8/9) recognises at page 70 that the siting of a large building in the countryside is generally contrary to the principles of planning set out in PPS1 and other national guidance. It also warns about seeking to hide buildings with unnatural earth bunds. More importantly it indicates that the scale of buildings can present considerable challenges which make "fitting in" with the existing fabric often inappropriate or impossible. This is one of those cases. The proposal is not compliant with PPS 7 or policy 78 of the BDLPR.

8.24 It has long been a major element of national policy that the countryside should be protected for its own sake. Moreover, generally speaking significant developments in the countryside fly in the face of policies on sustainability. Substantial weight should be given to the adverse impact this proposal would have on the countryside together, obviously, with the associated breaches of current countryside policy.

8.25 It is acknowledged that part of the application site is allocated for a waste management facility. However, in accepting this as a preferred site in a countryside location, the Inspector who held the Inquiry into the WLP, recommended that the site be reduced in size from that originally put forward and made a specific recommendation as to the size of any building associated with a waste management facility. Moreover, the eRCF differs from the RCF. The excavated hollow would be greater; the extent and height of the buildings would be greater (the building footprint would be 17% larger); the space for the buildings would be cut more squarely into the landscape and involve the loss of more woodland; and a substantial stack would be built. There is no specific support from EERA for either the stack or the paper pulp facility, nor any view given by CABE on this scheme.

8.26 The eRCF involves the loss of a greater depth of woodland than the RCF. Moreover, the stress caused to existing vegetation, by coppicing and the dewatering of soils that would occur, could result in further loss of vegetation.

8.27 In summary, the proposal would have a detrimental visual effect and be harmful to the landscape of the area.

Traffic Generation/Highways

8.28 The applicants maintain that HGV movement would be restricted to 404 per day, requiring an average payload of 23 tonnes per load. They acknowledge that this can only occur if virtually all of the waste comes via a waste transfer station (WTS) and has undergone some form of compaction. Such an approach does not stand up to scrutiny.

8.29 The applicants concede that the necessary network of WTSs does not presently exist. Moreover, the letters submitted from hauliers (GF/2/B Tab 15) do not convincingly demonstrate that average payloads of 23 tonnes can be achieved. Not all vehicles making deliveries to the site would be under the direct control of either the applicants or the waste operator. As the facility would operate in the open market, it would be unrealistic for the operator to insist that only full loads (23 tonnes) be delivered to the site. In addition there is no convincing evidence that a backload system could operate.

8.30 If the RCF was expected to generate 404 HGV movements in carrying 906,000 tpa, it is illogical to expect the eRCF to generate the same number of HGV movements when dealing with 40% more, namely 1,272,075 tpa. Either the traffic generated by the RCF was over estimated or that of the eRCF was under estimated. There can be no doubt that the eRCF would generate more traffic than the RCF. Using RCF payloads, the eRCF would be likely to generate about 548 HGV movements (Doc LC/3/A). If the EA's conversion factors for analysing waste and calculating volumes were used, the payloads of vehicles would be significantly lower than those used in the assessments by the applicants (Document LC/1/A). Traffic generation should be assessed on a realistic but worse case scenario. It is likely to be about 37% higher than that suggested by the applicants.

8.31 The Highways Agency only accepted that the eRCF would not have an adverse impact on the trunk road network on the basis that there would be no additional trips generated by the eRCF when compared with the RCF (Documents GF/10/B/6 and7). It is not known what approach the Highways Agency would have taken if it had been advised that the likely HGV movements generated would be greater than predicted.

8.32 The sole access for the proposal is onto the existing A120. This is a road which is currently operating well beyond its economic, design and practical capacity. This results in flow breakdown, reduced average speeds and extensive queuing, and there is no prospect of the A120 being improved in the near future. As a general guide, Annex D of TA46/97 indicates that the Congestion Reference Flow for a single 7.3m trunk road is 22,000 vehicles per day. The Annual Average Daily Traffic Flow for the A120 Coggeshall Road in 2008 was 24,144, demonstrating that the road has no spare capacity, resulting in congestion during the peak periods (Document LC/3/A).

8.33 An additional 404 HGV movements a day would result in a 30% increase of such traffic on the A120. If the likely traffic generation is greater, then the percentage increase would be even higher. This additional traffic would further reduce road safety. The applicants argue that the road would accommodate the additional traffic as the increase would be relatively small. Although the A120 may be able to accommodate the additional traffic it would be at the expense of further congestion. It cannot be right to simply allow more and more traffic onto this road.

8.34 When dealing with other development proposals in the area, ECC has sought to ensure that additional traffic is not generated on this road. Moreover there is no doubt that local residents are inconvenienced by existing traffic levels on the A120 (Document LC/4/A). There must be a point where potential traffic generation dictates that development should not be permitted. Policy T6 of the East of England Plan refers to the economic importance of the strategic road network to the region. The policy seeks to improve journey reliability by tackling congestion; to improve the safety and efficiency of the network; and to mitigate the environmental impacts of traffic. If permitted, the eRCF proposal would exacerbate the current difficulties.

8.35 The access road to the site crosses two country roads, Church Road and Ash Lane. Many HGVs merely slow at these junctions rather than stop. There have been accidents at these junctions in the past. The proposed trebling of HGV traffic on the access road would increase the risk of accidents at these junctions. The additional traffic passing through the Upper Blackwater Special Landscape Area would be detrimental to the rural character and peaceful nature of the countryside.

8.36 In relation to other highway matters, it must be recognised that the application site is remote. The proposal would not be readily accessed by public transport, walking and cycling. It would not reduce the need to travel by car. In this respect it is not PPG13 compliant. This, and the fact that the proposal does not comply with PPS7 should be given significant weight and militate against the scheme. The proposal is not a use which must occur in a countryside location. An urban area or fringe location with good access to the main road network would be more suitable and appropriate.

8.37 There is also concern that HGVs associated with the development would use local roads to the detriment of highway safety and the free flow of traffic on such routes. The waste operator would not have full control over all vehicles visiting the premises. They would not be contracted directly to the operator. This is evident from the Section 106 Agreement. Moreover this is a facility that would “welcome” substantial amounts of waste for recycling and treatment. Paper collectors, for example, may wish to visit at the conclusion of their rounds. The operator would have relatively little control of many vehicles visiting the site and would be able to do little more than politely request third parties to use the appropriate roads to access the site. Whilst the Section 106 Agreement provides for third party drivers to be disciplined, it would be difficult to enforce the routing requirements particularly when the policing would have to be undertaken by the public who would not necessarily be aware that a particular vehicle should not be on a particular road.

Other Matters

Ecology

8.38 When considering the ecological impact of the proposal, the applicants' evidence at Document GF/8/B/1 indicates that in five respects a negative impact would be certain. This leads to a requirement to judge the likely success of the mitigation measures. Paragraphs 5.4 and 5.5 of the 'Guidelines for Ecological Impact Assessment in the United Kingdom' (Document GF/8/B/2) refer to the potential uncertainty of mitigation measures and arguably give a warning that there can be no guarantee in respect of such matters. The applicants have given no categorical

assurances that the proposed mitigation/compensation measures would be totally effective. Local residents are concerned about the potential impact of the proposal as a result of factors such as light and noise pollution, and traffic generation, and the difficulty of ensuring that mitigation/compensation measures would be successful. There will always be some risks associated with such a large scale development. Moreover, the applicants accept that it would take many years to replace the lost woodland.

Noise

8.39 Noise levels in the locality are at present very low. The principle sources of noise appear to be agricultural vehicles, the quarry and distant traffic noise as indicated for example in paragraph 12.3.3 of the ES (Document CD2/7/12). It is especially quiet at night, when noise is almost undetectable. Any quarry noise is of a temporary nature and is necessitated by the fact that the development has to occur where the gravel exists. By contrast a countryside location for this development is not essential.

8.40 At certain times the overall noise climate is likely to increase. For example, Table 12-3 of Document CD2/7/12 indicates that a background noise survey gave readings of 29-43 dBL_{A90} during the day at Herons Farm. In contrast, paragraph 40 of Document GF/2/D/1 indicates that worst case noise levels at receptor locations during construction could be between 44dB(A) and 52db(A). There are also concerns about noise being contained within the building, given the size of the door openings and the number of vehicles visiting each day. The noise limits set out in the suggested planning conditions are indicative of the increase in noise levels that would be likely to occur.

Air quality

8.41 Whilst air quality may remain within legal limits it would nevertheless deteriorate. This is unwelcome. Moreover, in response to the formal consultation on the application the EA advised that the proposal in respect of the stack did not appear to represent Best Available Technology. Design changes have been undertaken since that time, but there is no observation from EA on this amended proposal. The EA points out that it is not enough to demonstrate that the EALs would not be breached. There is a statutory requirement to ensure that air quality is not significantly worsened. This raises concerns about the approach adopted by the applicants who have concentrated on compliance with EALs whilst not addressing the issue of actual air quality. EC Directive 2008/50/EC (due to be implemented in 2010) states that 'air quality status should be maintained where it is already good, or improved'. The eRCF would result in a deterioration in local air quality. The EA points out that NO₂ and CO₂ would increase, resulting in a significant worsening of air quality.

8.42 In Document CD/15/7, the EA indicates that the long term annual mean ($\mu\text{g}/\text{m}^3$) for arsenic set out in the latest version of H1, which is presently out for consultation, will be 0.003. This is half the figure used by the applicants, and if the revised figure were used the level of arsenic would be equalled or exceeded at no less than 23 locations. The peak concentration at Footpath 35 of 0.0068 would be 127% above the proposed new figure.

8.43 It is recognised that an EP application could not be made until there was a known identifiable operator. However, given the concerns of the local residents it is unfortunate that greater dialogue with the EA has not taken place in order to allay the fears of the local community. These fears cannot be totally dismissed. They are genuinely held and reasonably so. The extract from the Encyclopaedia of Planning Law at Document GF/3/B/3 indicates, in these circumstances, that some weight should be given to the fears and concerns of the local community. In this regard, it is unfortunate that the applicants have declined to monitor air quality at the boundaries of the site.

Lighting

8.44 The proposal is at a location where at present there is little or no artificial light at night. The scheme would change this situation. The extent of change is unknown as full details of the proposal and its lighting are unknown. However, the facility would operate 24 hours per day, 7 days a week. Staff would be present at all times. The applicants accept that in the morning, between 07:00 hours and daylight, and again in the early evening, between dusk and 18:30 hours, lighting would be essential. The facility would be open for business during these hours receiving waste etc. Outside of these hours, it is suggested that external lighting would only be used when necessary and that such lighting could be controlled by movement sensors. It is doubtful whether such an approach is realistic.

8.45 Light pollution is another factor whereby the development would have a detrimental impact on the area, the extent of which is unknown. As indicated at CD/16/4, the precise form of lighting that would be installed at the site is uncertain; the lighting schedule put forward by the applicants is subject to change. Notwithstanding this, it is essential that the proposal to provide full cut-off lighting at zero tilt, with an average lighting level of no more than 5 lux is adhered to. The site is known locally for its 'dark skies', affording views of the starry night sky. Such locations are becoming increasingly rare in Essex.

8.46 The proposed lighting schedule for Woodhouse Farm car park gives two options. The option with 8m lighting columns is the 'least worse' solution. It would provide more uniformity of light, and lower peak measurements than the option using lighting bollards which would give rise to substantial levels of sideways light emission. The whole site, including the Woodhouse Farm car park, should be designated as being an area classed as E1 under the Institute of Lighting Engineers Guidance Notes, namely the most sensitive, with the most control needed. The whole of the site is currently in a dark unlit location.

8.47 Proposed Design 2 for the lighting of the main plant area is preferable. This requires fewer lights and would result in a lower average and peak level of lighting. Notwithstanding this, there would be some reflection of light contributing to light pollution, and during misty conditions light would scatter within droplets of water in the air.

Overall conclusion on other matters

8.48 Although the effects on ecology, the consequences of noise, the reduction in air quality and the likely effect of lighting are all matters which may not individually justify refusing this application, they would cause harm to the area. When combined

with the landscape and visual impacts of the development, they would have a significant adverse impact on the character of the area and the living conditions of local residents.

The Fallback position

8.49 It is acknowledged that the existing planning permission for the RCF is a material consideration. However, little weight should be given to it, because there is no convincing evidence that it would be implemented. ECC resolved to approve the application in 2007 but it was not until 2009 that the requisite Section 106 Agreement was completed. Following the resolution to approve the scheme, the applicants wrote to ECC describing the RCF as an “indicative” scheme (Document LC/8/B/7).

8.50 At paragraph 4.4 of the Planning Application Support Statement for the present proposal (Document CD2/4), the applicants rightly advise that the RCF no longer represents the most suitable technology having regard to the JMWMS. The applicants accept that an amendment to the RCF planning permission would be likely before its implementation and point out that they have been waiting, along with others in the industry, for ECC to award a long term contract for MSW. Moreover, there is no evidence of detailed marketing or negotiations with a waste operator – the letters produced by the applicants show no more than a general intention. In addition there is no evidence demonstrating the viability of the RCF for C&I waste only.

8.51 To date, no real steps have been taken to implement the RCF permission. The applicants would not operate the RCF but would look for a partner waste organisation. It is not evident that a partner has yet been identified, let alone terms agreed with one.

Policy Implications

The Development Plan

8.52 The three most relevant components of the Development Plan (DP) are the Southend & Essex Waste Local Plan (WLP), the East of England Plan (EEP) and the Braintree and District local Plan Review (BDLPR). All contain relevant policies.

8.53 The WLP whilst adopted in 2001 is still broadly consistent with the subsequent PPS10. It adopts, for example, the waste hierarchy (see Policy W3A) and identifies certain sites for waste management facilities. The WLP proposes a site specific approach which is promoted in PPS10. The WLP should be given significant weight. The application site was specifically considered in the preparation of the WLP and whilst identified as a preferred site, limitations on both the size of the site and the extent of building coverage were imposed. This proposal is not restricted to the allocated site and the building footprint greatly exceeds that approved. Moreover, a paper pulp facility was not envisaged by the WLP at all. The proposal does not therefore accord with the WLP.

8.54 Notwithstanding this, the WLP was developed at time when WPAs were less confident about the community’s ability to achieve and sustain high levels of recycling and composting. There have been considerable improvements in recycling and composting performance since then. The WLP was cautious in its approach,

seeking to ensure that it delivered a sufficient number of sites that could accommodate the larger waste management facilities that were expected. The eRCF proposals involve a building whose footprint alone exceeds the size of the allocated site.

8.55 There are also clear breaches of the BDLPR with regard to policies 27, 78 and 88. These relate to the location of employment, protection of the countryside, and loss of best and most versatile agricultural land. The application site includes over 11ha of Grade 3a agricultural land which would be lost as a consequence of the proposal. These breaches all militate against this proposal.

8.56 The EEP provides an overall vision and objectives largely in line with PPS10. Whilst it seeks to ensure timely provision of facilities required for recovery and disposal etc of waste, it requires, like PPS10, a balancing exercise to be undertaken in order to minimise for example the environmental impact of such facilities. On balance the application proposal does not comply with policy WM1.

8.57 Overall, the proposal is not in accordance with the development plan.

PPSs 7, 10 and PPG 13

8.58 For the reasons explained above, the proposal is not PPS7 or PPG13 compliant. With regard to PPS10, it is acknowledged that it provides some support for additional waste treatment facilities. However, this should not be at any cost. The proposal is not fully compliant with PPS10 because: -

- (i) there is either no, or certainly not a full need for a facility of this scale;
- (ii) it would not contribute positively to the character and quality of the area;
- (iii) it would result in significant visual intrusion;
- (iv) the traffic generated would be unacceptable especially on the A120;
- (v) the scheme does not reflect the concerns or the interests of the local community;
- (vi) it conflicts with other land use policies (e.g. policies that seek to protect agricultural land and policies aimed at the protection of the countryside).

PPS1 Design Paragraphs 33-39

8.59 The Defra Guidance on the design of waste facilities referred to above (Document CD/8/9) indicates that in most cases even medium sized waste facilities will not be effectively screened by landscaping and bunds. Because of its size, this proposal is not accepted or welcomed by the community. PPS1 emphasises the need for development to take the opportunities available for improving the character of the area and the way in which it functions. This proposal does not comply with PPS1.

8.60 The introduction of such a substantial building for industrial purposes; the additional HGV movements that would be generated; and the associated noise, light and general activity that would arise, would combine to create an unacceptable impact on the character of the area.

SECTION 9 - THE CASE FOR THE COMMUNITY GROUP

9.1 The Community Group (CG) has sought to compliment the evidence of the Local Councils Group. It is beyond the resources of local volunteers to challenge the complex and wide ranging evidence regarding the need for, or the viability of, a large scale waste management installation. The evidence of the CG therefore concentrated on the matters of concern to local people where it was considered feasible to bring forward additional material.

The impact on the character of the landscape and heritage features

9.2 The surroundings of the site are predominantly rural. The aerial photographs (such as that at Document CG/1/B Appendix C) and the range of ground level photographs (in particular those at Documents CG/2/B appendix 1 and CG/1/B appendix E) demonstrate its rural character. It is accepted that it is not "pristine" countryside. The remnants of the airfield, the commercial and industrial uses in the vicinity, the sand and gravel workings and the towers are evident. However, when examined at a sensible scale, and not focusing on the area restricted to the site of the 6ha building and its immediate vicinity, these proposals clearly relate to a site in open countryside, dominated by large arable fields with woodland. The existing commercial and industrial uses occupy a very small proportion of the surrounding area. They are contained within defensible curtilages and do not detract from the open and rural character of the area. The applicants' description of the site as being "despoiled" is incorrect.

9.3 The nearby mineral workings are temporary; they have 12 years to run and the restoration is on-going as the reserves are dug. The relatively transient impact of the workings ought not to be given great weight. Because of the topography – the site is on a boulder clay plateau – there are many opportunities for long distance views in the area. For example, the existing hanger on the application site can be seen from a kilometre away to the west, namely from the edge of Silver End. The surrounding area and Woodhouse Farm are accessed by local people via the public right of way network, which is well used.

9.4 The evidence of the CG and of third parties shows that this is valued countryside. It forms the rural setting of Kelvedon, Coggeshall, Silver End and Bradwell and is enjoyed by local residents. Some have houses looking over the site. Many more experience it using the local roads and footpaths. It has ecology of local interest. Its biodiversity is rich. The ecological survey shows four bat species, great crested newts and brown hares, resident on and around the site. Notwithstanding the mineral working and the industrial/commercial activity, the area is identified by the CPRE as relatively tranquil, including having dark night time skies (see Document CG/1/B Appendix D). A national tranquillity map has been published which identifies the relative level of tranquillity in each 500 metre square in England. A place where tranquillity is most likely to be felt is represented in green on the map. The application site lies within an area shown as green on the map. In a report published by CPRE and the former Countryside Agency in 1995, tranquil areas were defined as 'places which are sufficiently far away from the visual or noise intrusion of development or traffic to be considered unspoilt by urban influences'.

9.5 The most detailed published landscape assessment in the applicants' evidence is the extract from 'Braintree, Brentwood, Chelmsford, Maldon and Uttlesford Landscape Character Assessments' prepared by Chris Blandford Associates and published in 2006 (Document GF/5/B (4)). Under the heading "Silver End Farmland Plateau" it indicates that "away from the main roads, that lie adjacent to the character area, and the sand and gravel pit, most of the area is tranquil." It is recorded that: "Overall, this character area has moderate to high sensitivity to change." The CG has sought to illustrate the detail of the existing landscape in its evidence. The photographs in CG/2/B appendix 1 are particularly useful because they were taken in January with bare deciduous trees. The winter visibility of the existing hanger can be compared with the autumn position. The CG was concerned at the time of preparing its evidence (before the ECC Committee Meeting of 24th April 2009) that the applicants' original illustrations of existing trees in the application drawings were inaccurate and that accordingly assessments of visual impact were understated.

9.6 A description of the listed buildings in the vicinity of the site and of the conservation area of Silver End is given in Document CG/4/1. Silver End was a model village created by the Crittall Company. As an important collection of Modern Movement buildings the village was designated as a conservation area in 1983 with a later Article 4 Direction to safeguard the character and appearance of the area, and the individual houses. The village contains a number of listed buildings, notably three managers' houses, one of which is known as Wolverton. It is visible across open countryside to the north east, and the application site is visible from it. Whilst much of the rest of the perimeter of the village is wooded, the flat plateau landscape results in a strong visual connection between the village and the application site.

9.7 Woodhouse Farm was listed Grade II in 1988. The farmhouse is of early 17th century origin with later additions. It has an oak frame and queen post roof, with hand made clay tiles. The building is in a poor state of repair and has been on the Buildings at Risk register, with its condition described as 'very bad', since 1987. There can be difficulties associated with the issuing of a repair notice and it is not necessarily the best course of action to achieve the preservation of a building. However, the neglect of Woodhouse Farm has continued for too long, and urgent repairs are necessary. It should be feasible for some repair work to be undertaken without awaiting the commencement of full refurbishment of this group of buildings. There is no schedule of immediate remedial works to secure the survival of the group of buildings. A nearby pump is also listed and an ancillary building to the rear, described as a bake house, brewhouse and stable is also listed Grade II. Lack of maintenance has led to the total collapse of the roof. The setting of the historic farmsteads on and around the application site relies on their relationship to the landscape, which can be affected by the introduction of alien elements such as chimneys or flues.

9.8 The setting of the listed buildings and the conservation area should not be narrowly defined. Paragraph 4.14 of PPG15 states that 'Section 72 of the Act requires that special attention shall be paid in the exercise of planning functions to the desirability of preserving or enhancing the character or appearance of a conservation area. This should also, in the SoS's view, be a material consideration in the planning authority's handling of development proposals which are outside the conservation area, but would affect its setting, or views into or out of the area.'

9.9 The applicants propose that the Woodhouse Farm complex be converted to an education centre. However, no listed building application has been submitted, and so it is not clear whether such proposals would secure the retention and restoration of the historic features of the buildings. Floor loading and fire regulation requirements could make this an inappropriate use of the buildings. Car parking, access and landscaping works could damage the immediate setting of the historic buildings. Woodhouse Farm is close to the proposed waste management facility. At present the westerly view from the farmhouse is of trees and the end of the existing hangar. This would be replaced by the roofs of the proposed IWMF and the chimney towering above. From this distance there would be noise, disturbance and possibly odour. Overall the setting of the historic farmstead would be completely transformed.

9.10 The setting of Woodhouse Farm is of most concern, but given the open landscape and the length of views this permits, other settings would be affected. The Silver End Conservation Area and the listed building known as Wolverton have already been referred to. In addition, Allshot's Farm is about 400m from the application site and would therefore be close to the IWMF. The damage already caused to the setting of the listed building at Allshot's Farm by the existing scrapyards would be exacerbated by the close view of the proposed chimney.

9.11 Herons Farm is some 900 metres from the site of the proposed chimney. Although not a listed building, Herons Farm is one of the historic farmsteads on the plateau. Existing views of blocks of woodland from this farm would have the addition of the proposed chimney stack and the roofs of the IWMF. The impact at Haywards Farm, another historic farmstead, would be similar.

9.12 Porters Farm and Rooks Hall are listed buildings situated about 1.4km and 1.8km respectively to the southeast of the application site. Parkgate Farm lies about 1.1 km to the south of the application site. Although not a listed building, it is one of the historic farmstead groups in the area. The proposed chimney at the IWMF would be visible from all three locations.

9.13 Sheepcotes Farm is a listed building sited about 600m west of the proposed IWMF. At present there is tall conifer planting at the rear of the plot which screens the farm buildings from the airfield. However, if this were removed, the proposed chimney and roofs of the IWMF would be visible at a close distance. Goslings Farm is a listed building sited about 1km to the northwest of the proposed IWMF, with no intervening woodland.

9.14 PPG15 makes it clear that the whole historic environment, not just the immediate settings of historic buildings and conservation areas, needs appreciation and protection. The proposed stack and roofs of the IWMF would be visible from many historic buildings, sometimes in an overpowering way. This would compromise the relationship between the historic buildings and their landscape setting. The historic environment would be further eroded by the increased number of HGV movements that would take place on the A120.

Traffic

9.15 Mr. Nee's evidence, at Document CG /3/A, emphasises the concerns of local people with regard to the existing congested state of the highway network, in particular the A120 and A12 Trunk Roads. The A120, from which access is to be

taken, is operating above its design capacity and there are frequent queues. Examples of congestion incidents are given in the document. The section of this road between Braintree and Colchester is single carriageway and the Highways Agency announced in July 2009 that plans to re-route this section of the highway have been dropped. It is likely to be many years before this length of the A120 is significantly improved.

9.16 The junction of the A12 and A120 at Marks Tey is listed as having high levels of NO_x at present. It is one of 18 air quality hot spots in the county. The additional HGV movements associated with the IWMF would exacerbate this situation.

9.17 There is particular concern about the likelihood of HGV traffic using local roads to gain access to the site when the primary routes are heavily congested or blocked. HGV traffic would divert through local villages such as Kelvedon and Feering under such circumstances. The onus would be on local villagers to police the HGV movements. It is inevitable that some HGV drivers would attempt to access the site via local roads through villages. For example the natural route from Witham would be the roads towards Braintree via Cressing (B1018) or through Rivenhall and Silver End.

9.18 A number of road accidents have taken place in the vicinity of the proposed access as indicated in Document CG/3/A. One serious accident took place at the junction of the site access road and Church Lane; several others have taken place on a 650m length the A120, in the vicinity of the access road junction. The proposed development would result in a significant increase in the number of HGVs using the access road and the nearby sections of the A120.

9.19 The EEP encourages modes of transport other than by road for the transport of waste. The only type of access envisaged for the application proposal is by means of road transport.

The eRCF, the permitted RCF and the allocation for waste management, WM1, in The Waste Local Plan

9.20 The proposal is for a very large scale waste management facility in the countryside, involving the loss of 1.6 ha of woodland and the sinking of its 6ha built form, to its eaves, into the ground. It is accepted that the principle of a waste management facility, on a relatively modest 6 ha site, incorporating the existing hanger, was established in the WLP. It is also acknowledged that permission was granted by ECC for the RCF in February 2009. It is therefore important to consider the differences between the RCF and the eRCF.

9.21 The eRCF would have a larger footprint and there would be differences in the details of construction and amount of excavation necessary. However, the critical difference between the two schemes is the incorporation of the CHP plant in conjunction with the waste paper processing. This would necessitate a chimney stack of a diameter of 7m and at least 35m in height above existing ground level, with the possibility that the EA may require a larger chimney, as a result of the EP process, than is envisaged by the applicants.

9.22 On this point, the response of the EA to the consultation on the Addendum Environmental Statement is of concern. The EA appears to cast doubt on the

acceptability of a 35m stack in meeting the requirements to protect the local environment. The Agency refers to recent permits for plants with "significantly smaller" waste throughputs yet having stacks of 75m and 65m i.e. around double the height of the stack proposed by the applicants at Rivenhall Airfield. As indicated in Document CD/16/2, this raises a number of issues:

i. Why did the applicants not engage at an earlier stage with the EA, at least to establish the likely range of stack heights required?

ii. The reliability of the applicants' evidence in respect of emissions modelling and stack height. The EA letter casts doubt on whether a 35m stack would be Best Available Technology in respect of a number of issues. The ground level emissions take up too much headroom between ambient and total pollution levels. It is not enough to demonstrate that levels do not exceed legal maxima; air quality should be protected, especially where it is already good. Moreover, the EA questions the high exit flue temperature of 150 deg C and consider that this raises issues about the efficiency of the proposed re-use of heat within the plant. This could have an impact on the required stack height, as a more efficient use of heat would reduce exit temperature, and thereby reduce the buoyancy of the plume with a resulting need for a higher stack.

iii. How a recommendation to the SoS could encompass such a wide disparity between the applicants' position on stack height and that of the statutory regulatory body, the EA.

iv. The greater intrusion on the rural landscape that would be caused by a stack height of the order suggested by the EA, together with the likely increased visibility from conservation areas, listed buildings and footpaths.

v. The possibility that a grant of planning permission for the eRCF could not be implemented without a further application to ECC for a much higher chimney, when the issue of the chimney height had been a key planning issue at the Inquiry

The visual impact of the chimney on the landscape

9.23 The applicants accept that the chimney stack would be a noticeable addition to the landscape and that it would be visible from an extensive area, although they argue that the change to landscape character would be localized. However, there is a clear distinction between the solid chimney proposed and the lattice structure of the existing tower. Moreover, the chimney would draw the eye to the long, low building of the proposed IWMF, as can be seen in the montage at Document GF/5/D/2 – the view east from Sheepcotes Lane near Wolverton.

9.24 The applicants also accept that the perceived visual envelope of the development would extend over a considerable distance. However, the CG does not agree with the applicants' submission that "the chimney would be visible but only as a small element of the overall view and would not give rise to unacceptable levels of visual impact". The applicants' landscape witness focused on the impacts on a limited number of residential properties. The concerns of the CG are wider, going to the impact on all of those travelling across and enjoying the surrounding countryside.

9.25 The impact of the stack is illustrated in the visualisations at CG/2/B (appendix 1) and the related comments. Some of the applicants' montages, particularly the appearance of the proposed stack and the screening effect of trees, are not accurate representations of the proposal. The stack would be more prominent than shown, and many of the existing trees are shown unrealistically high. The differences between the applicants and the CG as to the extent of the visibility of the site have narrowed as evidence has been prepared. The CG's visualisations are similar to the applicants' montages at Document GF/5/D /6 (from Footpath 8 near Polish Camp) and Document GF /5/B/16 (from Woodhouse Farm Garden).

9.26 The chimney would be visually harmful because it would convey an emphatic large scale industrial image, which would be something alien to this rural location. However carefully the chimney was finished, whether mirrored or otherwise, it would be perceived in this way. It is very doubtful that the light cloud reflective effect in the applicants' montages would be seen for long periods. The applicants acknowledge that it would subject to both aspect and weather conditions. The damaging impact on the setting of the listed buildings and the Silver End Conservation Area follows from the above. The settings are part of the overall rural landscape and would be compromised by this very visible element of industrial character.

Other impacts

9.27 There is concern about the loss of woodland that would occur and the ecological impact of the development. The estimated period for the maturing of new habitats is very considerable. The applicants' ecological evidence indicates a 40 year medium term, and 80 years long term, requirement for woodland growth. In addition there is doubt as to the protection which could be given to the retained woodland on the edge of the excavation, given the depth and sheer sides of the proposed excavation.

9.28 The traffic/highway impact is put forward as being the same for the eRCF as the RCF, namely 202 HGVs in and 202 out, all via A120 existing access. A condition is proposed to ensure this. Both this safeguard and the HGV routeing scheme in the S106 agreement are essential.

9.29 The effect of artificial light at night is also of concern. Light pollution must be minimized, given the existing character of this area. There is a doubt as to how shift changes and other movement during the hours of darkness could take place without light escape.

9.30 The local community is worried about the impact of emissions and the potential risk to health. It is accepted that given the policy position in PPS 10 these matters would have to be further addressed by the EA in the consideration of the EP.

Matters raised by the Secretary of State and the Inspector

9.31 The above factors give rise to the following conclusions:

- The eRCF proposal is not in accord with the WLP 2001, because of its scale and the fact that it is much greater in extent than the Policy WM1 allocation. There is also conflict with the provisions of the EEP 2008, Section 8, and Policy ENV2 because

of the harm which would be caused by the visual intrusion of the chimney stack in the landscape. As a result of its height, this essential element of the eRCF would have an impact which could not be successfully mitigated.

- The incorporation of the chimney and its adverse impact on the landscape is in conflict with the aim of PPS 1, para.34 – it would be inappropriate in its context and harmful to the character and quality of the area.
- Similarly, the proposal is in conflict with Key Principles (iv) and (vi) of PPS 7 because of the harm that would be caused to the character of the countryside by the scale of the chimney.
- Visual intrusion is one of the locational factors in Annex E of PPS 10 – considerations include the setting of the proposed location.
- The setting of listed buildings in the vicinity of the site would be harmed by the visual intrusion of the chimney. The same harm would be caused to the setting of the Silver End Conservation Area on its eastern side. PPS 10, Annex E(e), PPG 15, and the LB&CA Act 1990 s.66 require that these factors are taken into account.
- The intrusive effect of the chimney would be readily perceived by users of the local footpath network. The degree of access to the countryside in this area afforded by the public rights of way is a significant factor in weighing the impact.

SECTION 10 - THE CASES FOR OTHER PARTIES AND INDIVIDUALS

1. Saffron Walden Friends of the Earth (SWFOE)

10.1 The case for SWFOE can be found at Documents OP/1 and OP/2.

10.2 The RCF proposal did not meet all the requirements of Defra's Waste Strategy for England (WSE) 2007, but the proposal was flexible and could have been modified. It was proportionate to the needs of Essex and provided an opportunity to deal with some C&I waste. WSE 2007 stipulates the need for flexibility. Waste disposal technology has changed and will change in the future. The achievement of recycling targets will change the amount and constitution of residual waste.

10.3 In contrast to the RCF, the proposed eRCF is excessive. It would provide facilities for the treatment of 850,000 tpa of waste, which is over 300,000 tonnes more than the total household waste arisings in Essex in 2007/8 (JMWMS Document CD/8/2). The proposal includes an incinerator.

10.4 Incinerators have to work within a tight schedule of feedstuff loads for safety and efficiency reasons. Changes in the MBT processes at Basildon or Rivenhall could result in lower tonnages of SRF than anticipated. There could also be pressure to retain plastic in the SRF to maintain bulk and calorific value. This would increase the fossil derived fuel carbon dioxide, with implications for carbon emission balances. The pressures for a regular supply of feedstock for the incinerator would have an impact on decisions taken with regard to the MBT processes. It is likely to encourage the production of more SRF at the eRCF, which could only be achieved by reducing

the amount of recycling and composting that would otherwise be achieved. As incinerators normally have a 25 year life span and require a constant supply of fuel, the whole system would be very inflexible. This is contrary to the flexibility required by WSE 2007.

10.5 The fundamental difference between the two schemes is the introduction of the paper pulping plant (MDIP) for the treatment of 360,000tpa of paper. Such plants are high users of electricity and heat. The MDIP operation would be an industrial process and could not be regarded as a recycling operation. As such it would be in contravention of the Braintree District Local Plan Review. Such a proposal should be subject to a separate application and EIA, which would consider the appropriateness of the choice of site for such a development, especially in relation to transport. It is likely that the waste paper would be sourced from many areas in the UK. Moreover, the A120 is already congested at Marks Tey. The manipulation of lorry loads to produce the same number of HGV movements for the eRCF as predicted for the RCF could prejudice the success of the MDIP. The complications of lorry journeys could make it more difficult for the facility to compete in the market.

10.6 The production requirements of the MDIP dictate the nature and size of the waste disposal facilities rather than the aims of the Essex Waste Strategy. Policy WM3 of the RSS requires local authorities to reduce the amount of imported waste. Imported waste should only be allowed if new specialist waste facilities requiring a wide catchment area would bring a clear benefit to the Region. As only 10% of paper waste is likely to be high grade, the provision of a specialist recycling facility is unlikely to provide a significant benefit to either Essex or the Region. Out of an intended intake of 360,000tpa high grade paper, only 29,000tpa would be from local waste supplies.

10.7 The MDIP would require water over and above that obtained from recycling and rainwater collection. Water abstraction could have an impact on the River Blackwater. A water study should have been undertaken to assess the impact of water requirements.

10.8 An incinerator or a CHP produces more CO₂ per tonne of waste than an AD. Notwithstanding this, the situation is complicated by the recommendation of the International Committee on Climate Change that biogenic CO₂ should not be taken into account as it has already been sequestered in the growing plant and the overall balance is neutral. This convention has been utilised in the WRATE assessment process. However, this is incorrect as biogenic CO₂ should be included in carbon emission calculations for a number of reasons; the most obvious being that it is still CO₂ contributing to climate change whereas sequestered carbon remains truly neutral. The WRATE model therefore dramatically underestimates greenhouse gas production. In the context of the waste hierarchy, the production of biogenic CO₂ is regarded as recovery and the energy created is part of the recycled energy target, which also qualifies as saving of the CO₂ created by the average national power station in producing the same amount of electricity. The CO₂ savings from surplus energy supplied to the national grid would depend upon the content of the SRF to be burnt. Predictions can only be approximate and the savings would probably be near to neutral, whereas with AD all electricity /heat generated would be recovery.

10.9 Under the 2006 Waste Framework Directive (WFD), which is currently applicable, and relevant case law, incineration is correctly classified as disposal rather than recovery, unless it can satisfy a number of tests. The combustion of the waste must fulfil a useful function as a means of generating energy and such combustion must replace a source of primary energy, which would otherwise have been used to fulfil that function. This is not the case in the eRCF proposal. Energy production would be a by-product of waste disposal.

10.10 The 2008 WFD will reclassify certain forms of incineration as recovery, rather than disposal, subject to the organic content of the waste and the efficiency of the incinerator (Extract from Consultation Document is included in Inquiry Document OP/2). The R1 test relates only to incineration facilities dedicated to the processing of MSW. It is doubtful whether the eRCF would meet these standards and the scheme would therefore be at the bottom of the waste hierarchy. Even if the incineration element of the eRCF could be classified as recovery, it would reduce the level of recycling and therefore run counter to the objectives of the waste hierarchy. Research by the FOE shows that, in general, incineration and recycling are competitive rather than complementary – they compete for the same waste streams. The incineration element would therefore reduce pressure for recycling, yet in Essex there is a huge disparity between the best and worst performing districts in terms of recycling.

10.11 Defra's WSE 2007 encourages energy from waste (EfW) as part of its energy balance, and advocates anaerobic digestion (AD) for this purpose. Nowhere is incineration specifically encouraged in WSE 2007. The eRCF would reduce the level of AD that would otherwise be undertaken, by introducing incineration.

10.12 The proposal runs directly counter to the County's JMWMS. Incineration is not envisaged in the JMWMS, whereas AD is repeatedly advocated as ECC's preferred option. Incineration could be harmful to public health. The recent Health Protection Agency report on 'The Impact on Health of Emissions to Air from Municipal Waste Incinerators' admits that 'although no absolute assurance of a zero effect on public health can be provided the additional burden on the health of the local population is likely to be very small'. The most difficult problem to assess is that of deposition of long lasting dioxins and furans into soil and onto crops and grass and thence into the food chain. In the early 1990s inadequately monitored mass burn incinerators created a serious problem by contaminating fish, milk, chicken and eggs, leading to a situation in some areas where babies were absorbing more than the safe level from mothers' milk. These incinerators have now been closed. Future levels depend entirely on operators maintaining good practices and carrying out regular monitoring, together with regular testing of background levels in the food chain by the public agencies responsible.

10.13 Dioxins cannot easily be continuously monitored. Escapes could occur between monitoring sessions. In relation to air quality, some continuous background modelling would provide a baseline. NO_x assessments should have been included in the air quality assessment as it can have effects on vegetation and could therefore be an issue with County Wildlife Sites and agricultural land being at risk. No predictions have been provided for PM_{2.5}. A limit value of 25µgms/m³ for PM_{2.5} is likely to be introduced into the EU Air Quality Directive before 2015. Traffic emissions should also have been added to the predictions. Air standards legislation should have been the definitive requirement, rather than DMRB guidance.

10.14 The predicted levels of arsenic cannot be ignored and the matter cannot be left to a planning condition limiting emission levels to below the EAL. The modelling undertaken by the applicants may have been conservative, but arsenic is a carcinogen and so could be regarded as having no safe threshold limit.

10.15 When other satisfactory and safe methods of disposal are available, such as AD, then it is wrong to choose any alternative methods that pose serious health risks unless rigorously controlled. It is also noteworthy that SRFs can contain plastics and incineration of such material cannot be considered a recovery.

2. Colchester and North East Essex Friends of the Earth (CNEEFOE)

10.16 The case for CNEEFOE can be found at Documents OP/6.

10.17 There is a long history of opposition to incineration in Essex. There is no need for such major facilities at Rivenhall. An incinerator for SRF would destroy valuable materials, increase pollution, and emit gases that would contribute to climate change. High recycling rates together with local composting would be less costly than a strategy of large centralised facilities involving incineration and long term contracts. Moreover, there is ample landfill capacity in the County.

10.18 Recycling is better than incineration and landfilling from a climate change point of view. Burning SRF is particularly polluting. A number of incinerator projects have proved to be costly disasters.

10.19 The site and access routes are not suitable to accommodate such a large industrial plant with the associated hundreds of additional HGV movements that it would generate. The proposed eRCF on the site would be harmful to wildlife, the rural landscape and the historic heritage of the area.

10.20 The paper pulping plant would be better sited adjacent to a plant making recycled paper, or at least near the coast or adjacent to a rail line where alternative means of transport could be employed.

10.21 AD plants should be sited near sources of food and agricultural waste. They should be local facilities rather than centralised plants. It would be far more efficient to use the biogas from an AD plant to heat homes, rather than to produce electricity.

10.22 Recyclables should be collected separately and sorted at the kerbside for local baling, rather than waste being mixed and having to be sent to an MRF. Materials become contaminated and degraded when mixed, and a centralised MRF would use far more energy than a system where separated waste is collected at the kerbside. Clean separately collected recyclables command higher prices than materials recovered by means of an MRF.

10.23 The proposal would inhibit the rapidly increasing recycling and composting rates that are taking place in Essex. Colchester has the highest usage of home compost bins in the UK. The amount of municipal waste collected by Councils in England has been decreasing over the last few years.

10.24 There is a need for flexibility in dealing with waste over the next decade. No long term contracts should be entered into. As indicated in Document OP/6 Appendix 7, such contracts would limit the ability to increase recycling and prevent new technologies being adopted.

10.25 The appeal proposal would shred and burn a valuable resource, thereby causing environmental damage and restricting opportunities to reduce the production of gases which contribute to climate change.

3. Mr Stewart Davis – Kelvedon Resident

10.26 Mr Davis' submission can be found at Document OP/3. He points out that the A120/A12 route is already congested, and even if HGVs visiting the site were scheduled to avoid peak times, the periods of congestion during the day would be expanded.

10.27 Congestion would motivate drivers to seek other routes, which are unsuitable for HGV traffic. It would be impractical to enforce a contracted route, as this would require monitoring all vehicle trips.

10.28 The high quality pulp produced at the MDIP would have to be delivered in an uncontaminated state to paper mills. This would require the use of clean vehicles. Waste delivery vehicles may not be suitable, thereby resulting in more journeys than currently predicted by the applicants.

10.29 The need for the MDIP is questionable. A number of paper mills in the UK have closed recently because of over capacity in the market. Paper consumption is going down. The de-inking and remaking of paper uses more energy than making paper from new pulp obtained from sustainable forests.

10.30 The applicants have referred to obtaining waste from outside Essex. Where would it stop? Waste could be imported from anywhere with the result that roads would become more and more congested.

4. Mrs Eleanor Davis – Kelvedon Resident

10.31 Mrs Davis' submission can be found at Document OP/4. She considers that the road network is inadequate to serve the development. Roads in the area are busy and frequently congested. Either the road network should be improved, or preferably waste should be delivered to such a site by rail.

10.32 There is no overriding need for an incinerator. Any need would decline over the next few years as efforts to reduce our carbon footprint result in reduced waste arisings and increased recycling.

10.33 The eRCF would be a blot on the landscape and would create undesirable emissions. The incinerator would attract waste from a wide area.

5. Mr Robert Gordon – Silver End Resident

10.34 Mr Gordon lives in Silver End, 1km from the site of the proposed eRCF. He is concerned that noise and odour generated by the development would have a harmful

effect on the local population and on wildlife. The site is unique. It is a plateau inhabited by hares, skylarks and many other species. All would be at risk. A screening hedge would be of little use.

10.35 The impact of 400 HGV movements per day would be severe. Local roads would be affected, as the routing proposals would be subject to abuse.

10.36 The owner of the land has not recognised the significance of the site as an airfield used by the USAF and RAF.

6. Mrs Kate Ashton – Rivenhall Resident

10.37 Mrs Ashton's evidence, and appendices, can be found at Document OP/5.

10.38 The roads between Kelvedon, Rivenhall and Silver End are not suitable to accommodate an increase in HGV traffic. They are winding and narrow. In places they are not wide enough to allow HGVs to pass one another. HGVs using the local road network would harm the character of the countryside and be extremely detrimental to highway safety. There can be no guarantee that all HGVs associated with the proposed development would follow the defined access route.

10.39 In addition, there is potential for further mineral development in the area. If this and the eRCF development were to take place, an industrial landscape would be created and the character of the countryside would be destroyed. Such a combination of development would result in more than 1000 additional HGV movements on the A120. This would cause such serious congestion that lorries would be forced to use the local road network.

10.40 It was originally proposed that a waste treatment plant at Rivenhall Airfield would deal with local waste. However, the proposal has grown to an extent that it would be a major industrial development that would deal with waste from as far afield as the East Midlands. The complex would so large that it would ruin the rural character of the area. The proposed chimney stack would be seen for miles.

10.41 There can be no guarantee that emissions would not cause harm to human health or wildlife. The development has the potential to produce odours and bio-aerosols. Mrs Ashton's husband and son both suffer from asthma, and this would undoubtedly be exacerbated by any emissions.

10.42 Waste recycling figures in Braintree District Council are well ahead of targets. Waste management in the future should be undertaken within each district, and not on a vast centralised basis which increases the need for transport and environmental impacts.

6. Mr Brian Saville

10.43 Mr Saville lives at Herons Farm, which overlooks the application site. His family have lived there for generations. He regularly uses Church Road and is concerned about road safety at the access road junctions with Church Road and Ash Lane. On three occasions last year, vehicles came out of the Quarry access road immediately in front of his car, whilst he was travelling along Church Road. The access road is used as a 'rat run' when congestion occurs on the A120. There have

been two major accidents in the past, one at the Church Road junction and the other at the Ash Lane junction.

10.44 At present the access road carries about 200 to 300 vehicles per day. Adding a further 400 HGV movements would result in extremely dangerous conditions for road users. Many HGVs slow down, but do not stop at the junction. The proposal to trim existing hedges and replace signs would have little impact on road safety.

7. Ms Felicity Mawson - Witham Resident

10.45 Ms Mawson's statement can be found at Document OP/7. She is concerned that the future generation would have to suffer the 'blot on the landscape' that would be created by the development of the eRCF. The countryside would be despoiled.

10.46 HGVs would be likely to use the local road network, as the A12 road is already busy and congested. This would cause additional noise, vibration and reduced air quality from exhaust fumes. Local people's health and quality of life would be compromised.

10.47 Ms Mawson is also concerned about the consequences of potential accidents and the release of pollutants at the plant. Such a large plant would concentrate the various risks in one place.

SECTION 11 - WRITTEN REPRESENTATIONS

11.1 The application has been subject to three consultation periods; the first following the submission of the original application and ES, the second following the submission of the Regulation 19 additional information, and the third following the submission of the addendum to the ES. The responses to the first two consultation periods are summarised in the report to the ECC Development and Regulation Committee (Section 6 of Document CD/2/12A). Amongst other things these indicate that the East of England Development Agency broadly supports the application; the Highways Agency was satisfied that the proposal would not have an adverse effect on the A120 Trunk road, and the Environment Agency (EA) indicated that it had no objection subject to a number of comments. The EA pointed out that various mitigation measures should be undertaken and that an Environmental Permit would have to be obtained which would require the applicants to demonstrate that a high level of protection of the environment would be achieved. The Primary Care trust also had no objection, subject to certain mitigation measures being implemented in relation to air quality and road safety.

11.2 The Highway Authority did not object to the proposals subject to a number of highway improvements being secured by means of condition or legal agreement. Natural England (NE) also had no objection, provided proposed mitigation measures are undertaken. NE considered that the proposed ecological management plan would have a long term positive impact on ecological assets. However, Essex Wildlife Trust objected to the proposals on a number of grounds, including the proposed loss of 50m of species rich hedgerow, the loss of 1.6ha of woodland and resulting disturbance to the remaining area, and the loss of 19.1ha of open habitats. The Ramblers' Association also objected to the scheme pointing out that the airfield is on an elevated site which provides commanding views in all directions. The Association considers that the site has many of the characteristics of a greenfield site. It argues

that noise, dust, and traffic would be a nuisance for nearby residents and users of the local rights of way network. Written objections were also made by Braintree DC, a number of Parish Councils and the CPRE Essex. The objections from these bodies were expanded upon and explained by witnesses at the inquiry and are set out in preceding sections of this report.

11.3 In addition to the consultation responses, ECC received representations from 820 individuals and organisations, the vast majority objecting to the proposals. These can be found at Document 3. A summary of the representations is set out in Appendix F of Document CD/2/12/A. Amongst other things, objectors submit that there is no overriding need for the development and that such development is contrary to prevailing planning policy, in terms of national guidance and the development plan. Moreover, it is argued that the site and proposed development are far larger than that set out in the WLP and are excessive in terms of the needs of North Essex. The proposal is in breach of the proximity principle and would result in inappropriate industrial development in the countryside. There is concern that waste would be imported from outside Essex. Objectors argue that such development should be located near the coast, away from human habitation, and close to infrastructure that would provide appropriate access.

11.4 It is also argued that development would blight the countryside. The scheme would be readily visible in the landscape and the proposed chimney stack would be very prominent and visible for miles. The proposed height of the stack is uncertain. The photomontages presented by the applicants are inaccurate. Moreover, they show trees in leaf and therefore suggest greater screening than would be available in winter. The long term viability of the remaining trees is in doubt because of the reduction in water that would be available. New planting would not be effective as a screen for 10 to 15 years. There would be a loss of good quality agricultural land.

11.5 There is also concern that the development would result in a loss of habitats, grassland and woodland. It would be detrimental to protected species. The proposal would be harmful to the Upper Blackwater Special Landscape Area (SLA) as the access road passes through the SLA.

11.6 Objectors submit that the development would discourage recycling. It is argued that waste management should be undertaken at a District level and that facilities such as the CHP cannot run economically without a guaranteed supply of combustible material.

11.7 In relation to traffic generation, it is submitted that the number of vehicles anticipated by the applicants is not realistic and the road network would not be able to cope with the increased traffic. The A12 and A120 are already congested at peak periods and when accidents occur. At such times, HGVs associated with the site would use the local road network. There has been no attempt to make use of other forms of transport. Moreover, the additional traffic would contravene Government guidelines on CO₂ emissions and carbon footprints.

11.8 Objectors consider that the proposals would cause problems of light pollution, litter, odour, dust, noise and disturbance, and would encourage vermin. This would be harmful to the living conditions of local residents.

11.9 There is also concern about the impact of emissions from the eRCF on human health, wildlife and the growing of crops. The proposal could result in contamination of ground and surface water. Moreover, there is a risk of accidents which could pose a hazard.

11.10 There would be a detrimental impact on listed buildings in the area. The setting of Woodhouse Farm would be affected by the proposed nearby chimney and the car park.

11.11 In addition to the representations submitted to ECC, consultation responses were sent the Planning Inspectorate on the Addendum to the ES. Moreover, more than 80 further written representations were submitted which can be found at Documents CD/15/1 to 7. Again, the vast majority of these representations are objections to the proposal. The representations reflect many of the arguments set out in the representations sent to ECC and point out that only one letter of support for the proposal was submitted. It is argued that the proposals are in conflict with national, regional and local planning policies and do not represent the Best Practical Environmental Option. The proposal is for a large scale industrial development in the countryside. It would be poorly located and harmful to the quiet rural character of the area and to wildlife and protected species. It would be inadequately screened and readily visible in the landscape.

11.12 The chimney stack would be a prominent and intrusive feature, which could not be disguised or blended into the colour of the sky. Moreover, there is no certainty that a 35m high chimney would be adequate. The planning application and Environmental Permit application should have been progressed together. Government guidance encourages certainty in the planning system and suggests that applicants should work with pollution control authorities. If it were eventually decided by the EA that a 40m or even 45m high stack was necessary, a further planning application would be required.

11.13 Objectors submit that the eRCF would cause light pollution in an area that is light sensitive. Furthermore it would create noise and disturbance, dust and odour, and attract vermin and seagulls. It would be harmful to the living conditions of local residents. It would result in the loss of Grade 3a agricultural land. Moreover, the development conflicts with the proximity principle and is entirely reliant on road transport. The anticipated HGV traffic figures are unreliable. The additional HGV traffic would exacerbate congestion and create safety problems, particularly on local roads and at the junctions of the access road with Church Road and Ash Lane. Congestion on the A120 is already a problem. On many days traffic travelling in an easterly direction is almost stationary from Marks Tey to past Coggeshall, and in a westerly direction from the Quarry access road to Braintree roundabout.

11.14 Again, it is argued that the proposal would create a risk to human health and the environment, and that the potential for the development to emit harmful gases and contaminate ground water has not been adequately assessed. The emissions of arsenic and lead would be close to legal limits. Lead levels could rise to more than 5 times the background levels. Furthermore, there has been a failure to predict or monitor NO_x changes, which can have a significant impact on vegetation. In addition, there is uncertainty over the wind direction data used by the applicants. The need for the development has not been justified and the development would discourage recycling. There is a need for flexibility in waste management in future

years. The eRCF proposal does not permit such flexibility. Moreover, it would result in waste being imported into Essex.

11.15 It is also submitted that the development would harm the setting of many listed buildings and the conservation area at Silver End. There is concern that the proposal would be detrimental to the historic value of the airfield.

11.16 Brooks Newmark MP, the local Member of Parliament, indicates that he is opposed to the construction of an incinerator at Rivenhall. He shares many of the concerns of local residents and considers that such development is neither in keeping with the needs of the local community nor the countryside.

11.17 Natural England (NE) confirms that it raised no objection to the application when initially consulted. It accepts the view expressed in the Addendum ES that the site comprises a range of habitats and that these suggest that the UK Biodiversity Action Plan Priority Habitat, Open Habitat Mosaics on Previously Developed Land is applicable. However, it appears to lack many of the key physical features commonly regarded as increasing biodiversity, and any areas of marginal or pioneer habitat are small and widely dispersed. NE agrees that ECC were justified in assigning only a limited level of significance to the site's Habitats Action Plan status under its PPS9 duties.

11.18 Jeremy Elden, Director of Glendale Power Ltd, indicates that the company has recently announced plans for a 30,000 tpa Anaerobic Digestion (AD) power station and associated CHP system in Halstead, some 8 miles (13 kms) from the application site (Document CD/15/5/B). The plant is intended to process segregated organic waste. An AD plant smaller than that proposed at Rivenhall has been chosen for a number of reasons. Firstly, it would meet a local need rather than a larger or regional need. Secondly, it would be linked to a district heating scheme. This is only economical for small generators, as the quantity of heat involved in larger generators would be too much to meet the requirements of users within a radius of about 500 metres, which is a feasible distance to carry heat by means of hot water. Thirdly, larger plants inevitably involve greater transport distances for materials which offsets any economies of scale.

11.19 Mr Elden points out that in Essex there two main sources of organic waste suitable for feedstock for an AD plant of the type contemplated by Glendale Power, namely municipal and C&I waste. The Essex Waste Partnership of local authorities together with Colchester BC anticipates a total of 88,000tpa of municipal demand. C&I quantities are harder to assess. One estimate based on population and total UK volumes, suggests a C&I feedstock availability in Essex of around 105,000 tpa. An alternative estimate based on the 2008 Regional Biowastes Study produced by Eunomia for the East of England Regional Assembly gives an estimate of 84,000 tpa C&I feedstocks within the county. Total feedstocks in the County are therefore around 170,000tpa of which about 30-40,000tpa are currently treated. Based on a transport cost versus plant size analysis, Glendale Power considers that the most economic size of AD plant has a capacity in the range of 30-45,000 tpa. In view of Glendale Power's proposal, the applicants are incorrect to suggest few, if any alternative waste processing facilities are likely to be developed in Essex apart from one or more major facilities at Basildon, Rivenhall or Stanway.

11.20 In a letter dated 13 October 2009 (CD/15/7), the Environment Agency (EA) comments on the Addendum to the ES, pointing out that it is concerned that “the proposed stack height of 35m may not provide the best level of protection for the local environment, in particular for short term means of SO₂ and NO₂ and long term means for several of the trace elements which have very low Environmental Assessment Levels (EALs)”. The EA draws attention to a number of EfW plants for which it has recently granted permits and which have stack heights considerably higher than that proposed for the application site, together with significantly smaller annual throughputs. The Agency provides further comments on the Addendum, notably pointing out that it is not acceptable for the applicants to simply state that EALs are predicted not to be breached. Best Available Technique (BAT) requires minimisation of any impact.

11.21 However, in a subsequent letter (Document CD/16/1) the EA seeks to highlight that it is not objecting to the eRCF, but wishes to make clear that a future environmental permit may contradict the requirements of a planning permission. If the stack height was restricted to 35 metres by a planning permission, there may be options other than an increased height of stack available to the applicants to ensure that the best level of protection is afforded to the local environment, such as more stringent emission limits, should this prove necessary. However, until a detailed assessment is conducted during the determination of a permit application, there can be no guarantee that the stack height proposed would represent the Best Available Techniques (BAT) to minimise the impact of the installation on the environment. The EA points out that the detailed comments made in the appendix of the letter dated 13 October 2009 were intended to identify specific areas where further work would be required to adequately demonstrate that BAT was being used to minimise the environmental impact.

11.22 Although reference was made in the letter dated 13 October to two other EfW plants with taller stacks, the EA points out that each case must be taken on its own merits and the necessary stack height would depend on site and installation specific characteristics. It cannot be inferred that a shorter stack would not be acceptable. However, limiting the stack height would reduce the options available to the applicants to ensure that air quality is satisfactorily protected.

11.23 Feering Parish Council (PC) is concerned about the impact of emissions from the plant and subsequent air pollution. It is also concerned about the detrimental impact of additional traffic that would be generated on the local road network, particularly when the A12 or A120 were closed. The PC submits that there should be a rail link provided to the site. It is also suggested that if planning permission were granted, a S106 agreement should be drawn up to provide a flood lagoon at Bradwell to relieve flooding problems in Coggeshall, Kelvedon and Feering.

SECTION 12 - CONDITIONS AND OBLIGATIONS

12.1 Document ECC/8 sets out the final version of the conditions suggested by ECC. The first column gives the original set of conditions which ECC intended to impose following its resolution to grant planning permission for the eRCF on 24 April 2009. The central column sets out the latest set of suggested conditions after discussions

with the applicants, together with the reasons for those conditions. The third column sets out, where applicable, comments by the applicants and ECC.

12.2 Turning to the list of conditions, ECC and the applicants submit that the nature of the development justifies a 5 year period for commencement of the development, with 30 days notification of commencement. These are considered to be realistic limits by the main parties.

12.3 The maximum number of HGV movements permitted in relation to the eRCF would be the same as that allowed by the extant permission for the RCF. No assessment has been made of the impact of a larger number of additional movements. The LCG considers that the condition would be difficult to enforce other than after the event of a breach. The applicants are satisfied that the number of HGV movements permitted by Condition 3 would be sufficient to allow the IWMF to operate efficiently. The number of HGV movements permitted on Sunday and Bank Holidays is not identified but would be limited to operations permitted by conditions 34 and 36. These conditions relate to temporary changes approved in writing by the WPA and the clearance of waste from Household Recycling Centres which again would be largely under the control of the WPA.

12.4 Condition 5 requires a daily record of HGV movements in and out of the site. In order to provide information that would assist in the monitoring of the traffic routing provisions set out in the S106 agreement (see paragraphs 12.21-22 below), it is suggested that Condition 5 should include a requirement to log the identity of the vehicle operator, the type and size of the vehicle, the vehicle registration number, and an indication of whether the vehicle is empty or loaded. The applicants query the necessity to record such movements as the condition is intended to help control vehicle movements.

12.5 The LCG would like to see a condition requiring the buildings at Woodhouse Farm to be brought into a good state of repair. The applicants could eventually claim that they have failed to achieve further planning consent and Listed Building Consent (LBC) for the Woodhouse Farm complex and no refurbishment would be undertaken. It is argued that to bring the building into a good state of repair would not necessarily require further planning permission and LBC. However, the applicants point out that the covenants of the S106 agreement require the developer to make application for beneficial re-use of the building and to use reasonable endeavours to reinstate and refurbish the farm complex. ECC points out that the works required to bring the buildings into a good state of repair are substantial and may well require LBC in any case.

12.6 Condition 16 requires provision of an artistic feature on or near the north elevation of the proposed IWMF. BDLPR Policy RLP94 indicates that the District Council will seek the promotion of public art or local crafts in the public realm and that major development will make provision for the commissioning of suitable and durable features. It is pointed out that the site could be seen from the public footpath network.

12.7 Condition 17 requires a management plan to be submitted to ensure that there is no visible plume from the stack. The applicants argue that this requirement overlaps with the environmental permitting regime. ECC submits that it is a planning

matter which the EA may not address. The LCG are concerned that the condition does not categorically state that there will be no plume.

12.8 In relation to Condition 21, the LCG points out that no parking areas have been shown on the plans for the parking of HGVs. In response, the applicants submit that there is no intention to provide any substantial parking for HGVs in the open air on the site.

12.9 The LCG considers that a condition should be imposed requiring electricity produced at the plant to go to the National Grid. However, the applicants point out that it is not entirely within their control that the electricity produced at the plant would be supplied to the National Grid.

12.10 In relation to Condition 28, ECC submits that SRF should only be sourced from elsewhere in the East of England for a period of one year from the date of agreement with the WPA. In contrast the applicants argue that the sourcing of such material should be permitted for a period of 5 years, as a period of only one year would lead to problems of uncertainty.

12.11 Turning to condition 30, ECC submits that the proposed condition allowing some paper waste from outside the region is reasonable because it takes account of the fact that the applicants may not initially be able to source 80% of the paper feed from within the region - it provides a mechanism for agreeing a larger proportion. The applicants argue that the MDIP would be a unique facility in the UK and that the condition is unreasonable. It would not be possible to immediately source 80% of the feedstock from within the region and the relaxation allowed under the condition would therefore be necessary at the outset. Moreover, Policy WM3 of the East of England Plan (Document CD/5/1) indicates allowance can be made for specialist processing or treatment facilities to deal with waste primarily from outside the region where there is a clear benefit. The principle of self sufficiency therefore does not apply in this respect. The applicants argue that a restriction limiting feedstock to within a radius by road of 150km, or to the 3 regions bounding the East of England would be more reasonable and practical. This would help to control the distance feedstocks were transported and thereby limit emissions resulting from the transport of waste. The modelling of the carbon benefits of the eRCF was predicated on an average travel distance of 100km per kg of waste.

12.12 However, ECC submits that even in the circumstances where an immediate relaxation is necessary, the suggested condition is reasonable, because the terms of the condition require ECC to authorise a greater proportion of imports. There are no circumstances where the condition would be unreasonable. At the same time, the condition ensures that the applicants have an incentive to seek feedstock from within the region, and that an initial inability to do so would not result in a total abandonment of the proximity and self sufficiency principle in the future. The figure of 20% is derived from the application. The regulation 19 information provided by the applicants stated that the Region could provide a significant proportion if not all of the paper feed stock for the MDIP [CD 2/10, p19-16]. This forms the basis of ECC's 20%/80% split.

12.13 The LCG are opposed to Condition 35 insofar as it would allow construction to take place for 12 hours on Sundays. ECC points out that a similar condition was applied to the RCF permission and the applicants argue that the PFI programme

expectations suggest that the plant would need to be constructed within 2 years which may well necessitate Sunday working.

12.14 There is some concern that Condition 38 does not specify where the noise measurements should be made. It is suggested that the wording in the last sentence of Condition 39 should be added to Condition 38.

12.15 Cllr Abbott for the LCG is concerned that Conditions 39 and 40 allow much higher noise levels than predicted by the applicants. The proposed (LAeq 1hour) limit is 42dB between 1900 and 2300 hours, and 40 dB between 2300 and 0700, whereas the application predicts levels of 30dB and as low as 22dB. Moreover, it is considered that Condition 42 is unreasonable in allowing an increase in noise up to 70dB (LAeq 1 hour) for up to 8 weeks per year. Condition 41 is considered to be inadequate.

12.16 The LCG considers that Condition 44 should specifically require lighting with zero tilt and that lights should not be sited above existing ground levels. In response ECC submits that the condition provides adequate control. It considers that specific controls imposed at this stage, before the lighting scheme is finally designed, could be counter-productive.

12.17 The applicants submit that Condition 52 should be deleted as it is a matter that would be dealt with when application is made for an Environmental Permit (EP). However, ECC points out that the EP would not control the excavation and construction of the plant and the condition is not unduly restrictive.

12.18 The LCG would like to see a complete prohibition of the works set out in Condition 55 during the bird nesting season. The applicants point out that this would be unreasonable if no bird nesting were taking place at the location in question.

12.19 Amongst other things, Condition 56 controls the height of the proposed stack. The applicants consider that it is unlikely that the EA would require a stack taller than 85m AOD (35 m above existing ground level) as part of the EP process. Nevertheless, the visual impact of a stack up to 90m AOD in height has been assessed and shown in at least one montage submitted by the applicants. The applicants seek the SoS's view on this matter. A Section 73 application would have to be made if a taller stack were to be required, but the views of the SoS would obviously be helpful if they were known in advance.

12.20 Condition 60 relates to the management and watering of trees adjacent to the proposed retaining wall for the period of excavation and construction of the IWMF. The LCG submits that these measures should continue during the operational phase. However, ECC argues that the trees rely on surface water rather than ground water in the substrata and therefore there would be no need to continue watering after construction is complete.

12.21 A conformed and a certified copy of the completed S106 agreement can be found at Document CD/14/5. The S106 agreement includes a covenant whereby the developer would not implement the planning permission until the highway works set out in Schedule 1 were completed. The works include improvements to the access road crossings at Church Road and Ash Lane and at locations where public rights of way cross the access road. These works are necessary in the interests of the safety

of users of the local highway and rights of way network. Some parts of the proposed highway works would be dedicated where they would form part of the public highway network. A section of the existing access road would also be widened.

12.22 The document also makes provision for a traffic routing management scheme in a form to be agreed with the County Council. Plan No 2 of the document shows the routes intended for HGVs and Schedule 6 sets out details of the scheme.

12.23 The third schedule relates to the setting up of a Site Liaison Committee. This would provide a forum between the operator, the local authorities and the local population to discuss the ongoing operations of the development and to assess compliance with various aspects of the control of the development. It would provide an opportunity for the results of air quality monitoring required by the EA, and ground water monitoring results to be presented to representatives of the local community. The LCG would like to see ambient air quality monitoring being undertaken at specified receptor locations. However, the applicants point out that this would be subject to so many variables that the data would be of limited value and it would be preferable and more meaningful to monitor emissions from the stack as is likely to be required by the EA.

12.24 The document also makes provision for the refurbishment of the Woodhouse Farm complex, providing amongst other things an education centre for the public, and an area to be set aside for local heritage, and an airfield museum.

12.25 The fourth schedule relates to a management plan to ensure that all retained and proposed vegetation is managed in a manner that would mitigate the visual impact of the development and improve and enhance the ecological value of the area. The management plan would cover a period of 20 years from the commencement of beneficial use of the facility. The document also provides for the planting of trees and shrubs for woodland and hedgerow areas, and seeding for areas of open habitat.

12.26 Clause 3.15 of the document seeks to ensure that the development is implemented and that the permission is not used merely to extract minerals from the site.

12.27 The document also makes provision for a level two and, where appropriate, a level three survey, in accordance with the 2006 English Heritage guidance entitled 'Understanding Historic Buildings: A guide to good recording practice', for all buildings and structures within a defined area set out in the document. It also provides for funding a presentation of the findings.

12.28 Provision is made for a groundwater monitoring scheme to be undertaken and if necessary for mitigation measures to be taken. The monitoring would continue until such time as it could be demonstrated that the development would not cause material adverse effects on ground water levels.

12.29 The agreement also links the Paper Recycling Facility (MDIP) to the CHP plant, except for periods of maintenance, thereby ensuring that the MDIP is an integral part of the overall plant.

12.30 The eighth schedule makes provision for the setting up of a Community Trust Fund to fund local community projects, and requires the developer to pay to the Trust Fund 5 pence per tonne of waste imported to the site.

SECTION 13 - INSPECTOR'S CONCLUSIONS

Note: Source references to earlier paragraphs of this report are shown in brackets thus [].

13.1 Section 38(6) of the Planning and Compulsory Purchase Act 2004 requires that the application should be determined in accordance with the development plan unless material considerations indicate otherwise. Bearing in mind the matters on which the Secretary of State (SoS) wishes to be informed, the evidence submitted at the inquiry, the written submissions and my inspections of the site and its surroundings, I consider that the main considerations in this case are as follows:

- i. the relationship of the proposed development to prevailing planning policy;
- ii. whether the design of the proposal is of high quality and would result in a sustainable form of development;
- iii. the visual impact of the proposal and its effect on the character of the surrounding area and the wider countryside, bearing in mind the guidance in Planning Policy Statement (PPS) 7;
- iv. the extent to which the proposal is consistent with advice in PPS10 to provide adequate waste management facilities for the re-use, recovery and disposal of waste and to ensure that decisions take account of the waste hierarchy, the proximity principle and regional self-sufficiency;
- v. whether there is a need for a facility of the proposed size;
- vi. whether the overall scheme, including the de-inking and paper pulping facility, represents a viable proposal;
- vii. the weight to be given to the fallback position of the RCF permission granted in 2007;
- viii. whether there is a need for the scheme to provide flexibility to accommodate future changes in waste arisings and the way in which waste is dealt with, and if so, whether the scheme takes account of such need;
- ix. the effect of the scheme on the living conditions of local residents with particular regard to noise and disturbance, air quality, odour, dust, litter, outlook, and light pollution;
- x. whether the development would create a material risk to human health;
- xi. the effect of the proposal on highway safety and the free flow of traffic on the highway network;
- xii. the effect of the proposal on the local right of way network;
- xiii. the implications for the local ground and surface water regimes;
- xiv. the implications of the associated loss of Grade 3a agricultural land;
- xv. the effect of the proposal on habitats, wildlife and protected species;
- xvi. the impacts on the setting of listed buildings in the locality and the setting of the Silver End Conservation Area, and the desirability of preserving the listed

buildings or their settings or any features of special architectural or historic interest which they possess; and,

xvii. the effect on the historic value of the airfield.

i. Prevailing Planning Policy

13.2 When considering the extent to which the scheme is in accord with the development plan, the applicants submit that only the Regional Spatial Strategy (RSS) (which I shall refer to as the East of England Plan (EEP)) is up to date. I agree that it is the most up to date of the documents which make up the development plan, but the saved policies of the Essex and Southend-on-Sea Replacement Structure Plan 1996-2011 (ESRSP), the Essex and Southend Waste Local Plan (WLP) and the Braintree District Local Plan Review (BDLPR) are also of relevance in this case. Some policies in the WLP require consideration of the Best Practical Environmental Option (BPEO), whereas the Companion Guide to PPS10 indicates that there is no policy expectation for the application of BPEO, and that requirements that are inconsistent with PPS10 should not be placed on applicants. Nevertheless, it seems to me that the WLP is still broadly consistent with the subsequent PPS10. [3.4, 6.54, 8.53]

13.3 Many objectors argue that the proposal does not accord with the development plan. ECC, however, points out that although the proposal does not comply with some policy, a whole raft of development plan and national policy guidance is supportive of the eRCF scheme. ECC considers the proposal is a departure from the development plan primarily for two reasons, although they argue that these are not significant departures. Firstly, the site extends beyond the boundaries of the site allocated for waste management in WLP Policy W8A and Schedule WM1. Nevertheless, the principle of developing a waste management facility at this location accessed off the A120 is supported by the development plan. Moreover, the allocation does not incorporate land for access and does not include Woodhouse Farm. The former is a necessary part of any proposal and the latter is an element of the scheme which is clearly beneficial in this case. It must also be borne in mind that the RCF permission establishes the principle of waste management facilities extending beyond the allocated site. For these reasons, I agree with ECC that the weight to be given to this departure is limited. [3.4, 7.1, 7.5-7.7, 8.53, 11.3]

13.4 The second reason is that the Market De-inked Paper Pulp facility (MDIP) is considered to be an industrial activity. Siting such development in the countryside would be contrary to BDLPR Policies RLP27 & RLP78. Policy RLP27 seeks to ensure that development for employment is concentrated on suitable sites in towns and villages. However, it seems to me that the MDIP is an integrated part of the eRCF designed to recover high quality pulp from waste. EU waste legislation and policy indicates that waste remains waste until it is recovered. The processing of waste paper through the MDIP would be a waste management process. I have no hesitation in concluding that the MDIP would be a waste management facility. The BDLPR does not regulate waste development. Notwithstanding this, the focus of Policy RLP27 is on the strategic location of employment and traffic generators. The RCF which has already been permitted is also a generator of employment and traffic and there is little difference between it and the eRCF in this respect. [3.5, 6.64, 7.9, 8.55]

13.5 Policy RLP78 seeks to restrict new development in the countryside. However, a large part of the area where the integrated waste management facility

(IWMF) buildings are proposed is allocated for waste management facilities and again the permitted development of the RCF establishes the principle of large scale waste management development at this site. For these reasons, I give only limited weight to the claimed conflict with BDLPR Policies RLP27 & RLP78 on these matters.

13.6 Need is a matter to be addressed under the development plan. Amongst other things WLP Policy W8A seeks to ensure that there is a need for the facility to manage waste arising in Essex and Southend. The consideration of need also arises in the guidance of PPS10. I assess the need for the eRCF below and conclude that there is a need for waste treatment facilities having a capacity at least that of the proposed eRCF in order to achieve the national waste objectives set out in PPS10 and Policy MW1 of the EEP, and to achieve the recycling targets for Essex and the East of England, set out in Policy MW2 of the EEP. [6.55, 7.11, 7.12]

13.7 The LCG submits that the proposal does not comply with EEP Policy WM1, pointing out that the policy requires the environmental impact of waste management to be minimised, including impacts arising from the movement of waste. I have considered these issues under a number of headings below, and although the development would have a number of detrimental impacts, including an impact on the character and appearance of the area; increased HGV movements on the A120; a detrimental impact on the living conditions of local residents; and loss of Grade 3a agricultural land; I am not convinced that the impacts are so great that they make the proposal unacceptable. In my opinion, the scheme has been designed to minimise the impact of waste management and does not therefore conflict with EEP Policy WM1. [8.56]

13.8 I am satisfied that the proposed MDIP is consistent with EEP Policy WM3. It would enable the recovery of locally arising wastes together with higher grade waste paper attracted from outside the region because of the absence of similar facilities in the UK. [6.56]

13.9 Objectors point to the congestion which presently occurs on the A120 and submit that, by adding further HGV traffic to the A120, the proposal would conflict with EEP Policy T6 which, amongst other things, seeks to improve journey reliability on the regional road network as a result of tackling congestion. However, paragraph 7.18 of the EEP makes it clear that the regional road network should be the lowest level road network carrying significant volumes of HGVs. Policy T6 relates to the improvement, management and maintenance of the strategic and regional road networks, and thereby aims to ensure that they are fit for purpose. Traffic generated by the proposal would access the site directly via the A120 Trunk road and would therefore be directed immediately to the appropriate road network level. In this respect the proposal does not conflict with EEP Policy T6. [6.75, 8.34]

13.10 For all the above reasons, I consider that the proposal is broadly consistent with the policies of the development plan, although it does not comply with all policies. For example, the loss of Grade 3a agricultural land would be in conflict with BDLPR Policy RLP 88, and the visual impact of the chimney would have some detrimental impact on the landscape character and thereby conflict with the objectives of RLP 78 and EEP Policy ENV2. However, in relation to the requirements of EEP Policy ENV2, it is arguable that appropriate mitigation measures would be provided to meet the unavoidable damage to the landscape character that would be caused by the proposed chimney stack. [6.85, 8.55, 9.31]

13.11 I have considered the proposal in the light of national guidance. Whilst there is some conflict with the guidance, again for example, the loss of agricultural land and the impact of the proposed stack on the landscape character, I am nevertheless satisfied, for the reasons given in the following sections, that the proposal is generally in accord with national guidance, including that contained in PPS1, PPS7, PPS10, PPG15, PPS22 and PPS23.

ii. The quality of the design and sustainability implications

13.12 The design, layout, scale, dimensions and external finishes of the eRCF are similar to those of the RCF, albeit that the eRCF would have a footprint about 17% larger than the permitted scheme. The main difference between the schemes is the addition of the MDIP facility, the CHP plant, and the stack. Bearing in mind the nature and size of the proposed development, I consider that it would be remarkably discreet within the landscape. The IWMF would be sited below existing ground level which would result in a large proportion of the structure being hidden from view and the rooftop level of the main buildings would be no higher than the existing hangar on the site. Moreover, the large arched roofs of the main buildings would resemble those of an aircraft hangar and thereby reflect the past use of the site as an airfield. [6.6, 6.94, 7.19, 8.25]

13.13 The cladding materials would be dark and recessive and the green roof of the main buildings would be colonised with mosses. The application site lies in an unlit area which is sensitive to light pollution. However, it seems to me that lighting at the site would be as unobtrusive as possible. Most, if not all, lighting units would be sited below existing ground level and designed to avoid light spillage. In addition, the extension to the access road would be built in cutting or on the existing quarry floor so that traffic generated by the site would be screened from many viewpoints, although the access road would be crossed by a number of footpaths. [6.6, 6.84, 6.93, 7.20, 11.3]

13.14 I consider that the combination of the above features, together with the proposed additional woodland and hedgerow planting, would help to alleviate the impact that such a large development would have upon its surroundings. In relation to the RCF proposal, CABE commented that the location was suitable for a waste management facility and that the proposed architectural treatment and sinking of the building and approach road into the ground raised no concerns. CABE made no consultation response in relation to the eRCF. [6.95, 7.19, 7.28]

13.15 The proposed stack would be an intrusive feature in the landscape. Again, however, the design of the scheme has sought to minimize this impact. The scheme has been amended so that only one stack would be built, albeit that it would be some 7m wide. Nevertheless, it is predicted that there would be no visible plume rising from the stack and the structure would be clad in a reflective finish. This and its siting, where a significant proportion would be screened from view, would help to mitigate its impact. [6.4, 6.82, 6.116, 7.20, 9.23-26, 11.4, 11.12, 12.7]

13.16 It seems to me that each of the waste management processes within the eRCF would benefit from the proposed integration with others. However, there is sufficient capacity in each of the processes to allow for variation thereby providing flexibility of use. [6.97]

13.17 The Climate Change Supplement to PPS1 requires that proposals make an appropriate contribution to climate change. Analysis using the EA's 'WRATE' Life Cycle Assessment Model indicates that the eRCF would result in a significant reduction in CO₂ emissions. The total savings of CO₂ by 2020 would be in excess of 70,000 tpa which compares favourably with the 37,000 tpa savings from the RCF. The integrated nature of the development would enable the power supply required to run the entire plant to be self generated at a lower carbon emission rate than electricity drawn from the National Grid. Decoupling the CHP from the rest of the scheme would require 25MW of electricity from the National Grid to power the waste management processes. [6.99, 6.100]

13.18 I am mindful that the WRATE analysis does not take account of the production of biogenic CO₂ in the carbon balance. This approach is justified on the basis that CO₂ has already been sequestered in the growing plant and the overall balance is therefore neutral. Saffron Walden Friends of the Earth (SWFOE), on the other hand submits that biogenic CO₂ should be included in carbon emission calculations, not least because the production of biogenic CO₂ contributes to climate change, whereas sequestered carbon remains truly neutral. There is some merit in this argument, although, as the applicants point out, FOE's concern on this matter primarily relates to its disagreement with current guidance. IPPC guidance does not require biogenic CO₂ to be included. It may well be that other methods of dealing with organic waste, such as composting, would result in carbon being sequestered for a considerably longer period than in the case of incineration where much of the carbon would normally be released immediately. However, there is no dispute that the applicants have adhered to current guidance in assessing the carbon balance. [6.4, 10.8]

13.19 PPS22 indicates that energy from waste is considered to be a source of renewable energy provided it is not the mass burn incineration of domestic waste. SWFOE submits that the CHP should be characterised as disposal rather than recovery of waste as a matter of EU law. It also argues that recovery of energy through the CHP does not meet the formula for R1 recovery operations set out in Annex II of Waste Directive 2008/98/EC, which comes into force in late 2010. However, the energy efficiency figure formula set out in the Appendix to the Directive indicates that the CHP would meet the requirement for classification as recovery. Moreover, as the applicants point out, CHP is currently supported by WSE 2007 and other national and regional policy because of its ability to recover energy whether or not it is technically recovery or disposal in EU terms. The Waste Directive 2008 seeks to address the categorisation issue. The use of SRF in the proposed CHP plant and the export of electricity to the National Grid would contribute to meeting the Government's Renewable Energy target of producing 15% of UK energy from renewables by 2020. The contribution would be increased by the proposed co-location of the MDIP and its consumption of heat from the CHP plant. For these reasons, I agree with the applicants that the eRCF proposal is in accord with the objectives of PPS22, the UK Renewable Energy Strategy, and WSE 2007 in this respect. [6.5, 6.101, 6.102, 7.27, 10.9-10]

13.20 Objectors submit that it is inappropriate to site such large scale development within the countryside. I am mindful that the application site can only be accessed by means of road transport and that for the workforce and visitors it would not be readily accessible by means other than the private car. However,

such a development would not necessarily be readily sited at the edge of a town or service centre. Moreover, permission has already been granted for a major waste management facility at this location. [8.23, 11.3, 11.16]

13.21 The operational impacts of the development would be minimised by the use of negative air pressure within the buildings and a design which would allow, and require, all loading and unloading of material to take place within the buildings.

13.22 For all the above reasons, I conclude that the design of the eRCF is of high quality and that it would be a sustainable form of development which would enable the management of waste to be undertaken in a sustainable manner.

iii. The impact on the character and appearance of the area.

13.23 My conclusions on this issue are interlinked with my comments on the impact of the development on the living conditions of local residents. My conclusions, at paragraphs 13.66 to 13.85 below, should therefore be read in conjunction with the following comments.

13.24 The site is situated in an area of primarily open, flat countryside, which allows long distance views from some locations. The character of the site and its immediate surroundings is heavily influenced by the remains of runways and buildings from the former Rivenhall Airfield; the nearby excavations at Bradwell Quarry; and blocks of woodland immediately to the south and east of the proposed location of the IWMF. The wider landscape beyond this area comprises gently undulating countryside, characterised by large open fields, small blocks of woodland and discrete, attractive villages. The existing access to the quarry, which would be used to provide access to the IWMF, passes through the Upper Blackwater Special Landscape Area. [2.1, 2.2, 6.77]

13.25 The site of the proposed IWMF and its immediate surroundings is not subject to any special landscape designation and is not, in my judgment, an area of particularly sensitive countryside. Its character as Essex plateau farmland has been degraded by the airfield infrastructure, the nearby quarry and isolated pockets of commercial development in the locality. The principle of a waste management facility at this location served from the A120 is established by the allocation in the WLP. The WLP inspector did not rule out an incinerator on the site, and WLP policy W7G suggests that such development may be acceptable. Moreover, as I conclude at paragraph 13.60 below, the RCF permission establishes the principle of large scale waste management at the application site, and the potential environmental impacts of the RCF are a material consideration in the present case. [2.5, 2.7, 6.77, 7.25, 8.16]

13.26 The eRCF has been designed in a manner that would limit its impact on the landscape. The building would be sited below existing ground level and the proposed extension to the access road would be primarily in cutting; the arched roofs of the main buildings would reflect the design of aircraft hangars; cladding materials would be dark and recessive; the green roof of the building would become colonised with mosses; and new hedging together with existing and proposed woodland would help to screen the development.

13.27 Lighting of the development would have some impact on the character of this presently unlit area. Again the design of the development is such that this

impact would be minimised. Most lights would be sited below existing ground level with flat glass luminaires mounted at zero tilt. Outside the hours of 0700 to 18.30 hours, external lighting would operate only in response to movement sensors. The disturbance caused by the coming and going of vehicles would also be reduced by the fact that much of the access road would be in cutting. [6.82-84]

13.28 I deal with the matter of tranquillity at paragraph 13.71 below and conclude that impact of the development on the tranquillity of the area would not be serious, once the construction operations are complete. [6.124, 8.15, 9.5]

13.29 The eRCF would have a slightly greater footprint than the RCF and it would be constructed further into the existing belt of woodland to the south. However, the main difference between the two schemes, in relation to the impact on the character and appearance of the area, would be the addition of the proposed stack. This would be a noticeable and substantial feature. It would rise 35m above existing ground level and be some 7m in diameter. It would, however, be partially screened by woodland to the south, east, and west and by the IWFM building when viewed from the north. Nevertheless, from many locations the top 20 metres of the stack would be visible. Moreover, the topography of the area would enable long distance views of the top section of the stack from some locations. Although the stack would be a relatively minor element in the landscape as a whole, and there would be no visible plume, I consider that it would appear as an industrial feature which would have some detrimental effect on the present lightly developed, semi-rural character of its surroundings. [6.103, 8.20]

13.30 On the other hand, the mitigation measures associated with the development would result in some enhancement of the countryside. The proposed woodland planting would cover a greater area than the area of woodland that would be lost, and the 2kms of new hedgerow would be of particular benefit. There would be a loss of 19.1 ha of existing open habitat, although much of this is not of high quality, and the proposal would provide for the management of remaining areas of habitat and various areas of new habitat. Moreover, the proposal includes the management of existing and proposed water bodies which would enhance the bio-diversity of the area. I also consider that the proposed refurbishment of the derelict listed buildings at Woodhouse Farm would be of benefit to the character and appearance of the countryside. [7.28, 8.19]

13.31 In conclusion, I consider that the eRCF would have some urbanising and detrimental impact on the semi-rural character and appearance of the area, and in this respect it would conflict with the aims of BDLPR Policy RLP78 and EEP Policy ENV2. However, I am mindful that the rural character of the area has already been degraded. Moreover, when compared to the RCF proposals, the main additional impact of the eRCF on the character and appearance of the area would be as a result of the proposed stack. This would have a materially detrimental effect on the character of the area, although as it would be partly screened it would not, in my judgement, be an overwhelming feature in the landscape. Bearing in mind the benefits that would be provided by additional woodland and hedgerow planting, over and above that which would be provided by the RCF development, I conclude that the overall impact of the eRCF upon the character and appearance of the area would be detrimental but limited. By providing these mitigation measures where a detrimental impact is unavoidable, the proposal arguably meets the requirements of EEP Policy ENV2 and I consider that the overall impact would be acceptable. I agree

with the applicants that the limited visual impact arising from such a large-scale proposal suggests that the site is reasonably well located for the proposed use. On balance, I consider that the proposal respects the objectives of PPS7 and the extent of conflict with the guidance is limited. [7.30]

iv. Consistency with PPS10

13.32 PPS10 seeks a step change in the way waste is handled by moving the management of waste up the waste hierarchy. The guidance indicates that the overall objective of Government policy on waste is to protect human health and the environment by producing less waste and by using it as a resource wherever possible. The eRCF would provide various means of dealing with waste, all of which would help to reduce the need for landfill. The various elements of the integrated plant would recycle waste, produce compost, and create energy from waste.

13.33 Some objectors argue that the development would discourage measures aimed at separating waste at the point of collection, whilst others are concerned that the demand for feedstock for the CHP would discourage recycling and result in certain wastes being managed at a point lower on the waste hierarchy than would otherwise occur. Under certain circumstances, where, for example, overall waste volumes reduced significantly, I agree that the existence of the eRCF could potentially reduce the incentive to separate waste at the point of collection. On the other hand, as markets for recycled waste develop, a reduction in the availability of recycled waste could increase its value and thereby enhance any incentive to separate waste at the point of collection. Similar arguments could be made in relation to feedstock for the CHP. [10.4, 11.16]

13.34 In reality, challenging targets are in place, relating to the recycling and recovery of value from waste, and the elimination of landfilling untreated municipal and commercial waste by 2021. In meeting these targets, I have no doubt that significant waste management facilities with overall capacities greater than that of the eRCF will be required, in addition to the current and future incentives to reduce waste, re-use materials, and separate waste at the point of collection. ECC considers that the type of facility now proposed at the application site will be necessary if it is to meet the national waste objectives set out in PPS10 paragraphs 1 and 3 and the challenging targets set out in EEP Policy MW2. [7.16]

13.35 The proposed facility would help to deliver these objectives by moving waste up the hierarchy. It would recover recyclables, produce compost and reduce the need for disposal of residual material to landfill by using such material as a fuel for combustion in the CHP plant. It would also use imported SRF from other permitted waste management facilities in Essex, which might otherwise go to landfill. The scheme would generate electricity and provide a specialized facility for the recovery of recycled paper. Although the combustion of waste is only one step above landfilling in the waste hierarchy, the CHP is only one of the facilities that would be available at the eRCF. In my judgment, this integrated plant would allow the anticipated waste arisings to be managed as far up the waste hierarchy as reasonably and practically possible. Moreover, it would significantly reduce the amount of residual waste that would need to be sent to landfill. In these respects the proposal is in accord with the objectives of PPS10. [7.16]

13.36 In relation to the aim of protecting human health and the environment, I consider that by reducing the amount of material sent to landfill; recycling material; and using waste as a resource; the eRCF would be beneficial to the environment and thereby to human health. However, the question arises as to whether the emissions from the plant would conflict with the aim of protecting human health and the environment. I deal with these matters at sections x and xv below, and conclude that the plant could be operated without causing any material harm to human health or the environment. The dispersion modelling assessments undertaken to date show that the risks to human health would be negligible and I am satisfied that this matter would be adequately dealt with by the Environmental Permitting regime.

13.37 Objectors argue that the proposal does not comply with PPS10 because (i) there is no need for a facility of this size; (ii) it would not contribute positively to the character of the area; (iii) it would result in visual intrusion; (iv) the traffic generated on the A120 would be unacceptable; (v) the scheme does not reflect the concerns of the local community; and (vi) it conflicts with other land use policies. I consider the need for the facility in the section below and conclude that a need has been demonstrated for waste treatment facilities having a capacity at least that of the proposed eRCF. In relation to the impact of the proposal on the character and appearance of the area, I conclude at paragraph 13.31 above that although the eRCF would have some detrimental impact on the rural character and attractive appearance of the area, the mitigation measures that would be put in place would reduce this impact to an acceptable level. Similarly, I am satisfied that the condition limiting the daily HGV movements generated by the development to no more than 404, and the provisions of the S106 agreement with regard to traffic routeing, would ensure that the impact of generated traffic on the local road network would be acceptable. [8.58]

13.38 Clearly the local community have deeply held concerns regarding the proposal in relation to a range of matters. However, although planning strategies should reflect the concerns and interests of communities, this requirement applies not only to the immediate local community but the wider community to which the strategies apply. I consider that the design of the scheme, and the mitigation measures employed have addressed the concerns of the community so far as possible and to a reasonable extent. Obviously this has involved a balance in seeking to minimise the impacts of the development whilst making use of the benefits that the development could provide. The eRCF would allow Essex to increase its provision of sustainable waste management, secure increases in recycling and recovery, and reduce carbon emissions. The community's needs for waste management would in part be addressed by the eRCF. [6.108, 6.109]

13.39 I am mindful that the proposal conflicts with some objectives of planning policy. For example, it would result in the loss of some of the best and most versatile agricultural land, and it is not fully in accord with WLP Policy W8A in that the application site is larger than the allocated site and the proposed building is substantially larger than envisaged. However, these matters must be balanced against the benefits of the proposal and other sustainability issues. Moreover, account must be taken of the wide range of mitigation measures which would minimise the impacts of the development.

13.40 Overall, I am satisfied that the proposal is consistent with the key planning objectives set out in PPS10. It would help to deliver sustainable

development by driving waste management up the waste hierarchy and contribute towards ensuring the timely provision of sufficient waste management facilities to meet the needs of the community. With regard to self sufficiency, the facility would meet a need in the region to deal with MSW and/or C&I waste. The development would help to reduce carbon emissions and would have benefits in terms of climate change. It would also contribute to the implementation of the national waste strategy. The impacts of the development could be adequately controlled or mitigated, and the proposal would pose no significant risk to human health and the environment. In my opinion, the design of the development and the associated mitigation measures would help to support the objectives of sustainable waste management. [6.99, 6.106, 7.31-33]

v. The need for the proposed facility

13.41 PPS10 indicates that where proposals are consistent with an up-to-date development plan, applicants should not be required to demonstrate a quantitative or market need for their proposal. Although the WLP allocates a site for waste management facilities at Rivenhall Airfield, in accordance with Policy W8A and Schedule 1, the allocated site is far smaller than the application site. Moreover, the size of the proposed IWMF is clearly much larger in area than that envisaged in Schedule 1. Furthermore, Policy W8A requires a number of criteria to be satisfied if waste management facilities are to be permitted. One of these is that there is a need for the facility to manage waste arisings in Essex and Southend. I appreciate that the WLP pre-dates PPS10 and is arguably out of date in that it requires, for example, waste management proposals to represent the BPEO. Notwithstanding this, it cannot be argued that the proposal is fully in accord with an up-to-date development plan. Given the difference in size between the proposed development and the development anticipated on the allocated site, I consider that the need for a facility of the proposed size should be demonstrated. [7.11]

13.42 The EEP sets challenging targets for the recycling, composting and recovery of both MSW and C&I waste in accordance with the WSE 2007. By 2015, 70% of MSW and 75% of C&I waste must be recovered. The Plan anticipates provisional median waste arisings for MSW and C&I waste for Essex and Southend, including the required apportionment of London Waste, for the period 2015/16 to 2020/21 to be 3.67mtpa. However, the applicants' need case has been assessed on a more conservative basis, using the 2.4mtpa for 2020/21, which is put forward by the East of England Regional Assembly (EERA) in its report entitled 'Waste Policies for the Review of the East of England Plan' dated 29 June 2009. Nevertheless, as this document is at the consultation stage, the larger EEP figure should be used. Indeed, as the applicants point out, the consultation process on the EERA Report of July 2009 has not yet been completed and subject to examination and therefore the document carries little weight. Accordingly, the 3.67mtpa figure in EEP Policy WM4 is the figure which should be used at present. [6.25]

13.43 In contrast to these figures, the potential treatment capacity of the currently permitted facilities in Essex is only 1.375 mtpa, and there do not appear to be any current plans to bring capacity forward on the WLP preferred sites that are not already the subject of a resolution to grant planning permission. Therefore, even on the basis of the reduced figures in the consultation document, I am satisfied that there is a need in Essex for new facilities to manage both MSW and C&I wastes. The LCG submits that the EEP policies are based on arisings which are not occurring at

present; the actual arisings being lower than estimated. However, I give little weight to the 'Updated Capacity and Need Assessment – Final Report' prepared by ERM for ECC in July 2009, as it contains a number of inaccuracies and will not form part of the evidence base for ECC's Waste Development Document. [6.13 -6.16, 6.30, 7.11-7.13, 8.6]

13.44 Many objectors, including the LCG consider that the capacity of the proposed eRCF is far greater than the perceived need. However, even on the basis of the lower, but disputed, figures for need based on the ERM reports, there is still a need for the proposed MBT facility in terms of MSW and C&I waste arisings. These figures result in a capacity gap of 326,800 tpa, compared to the proposed MBT capacity of 250,000 tpa. Using the reduced EEP figures, the overall treatment capacity gap in 2021 is likely to be between 412,762 and 537,762 tpa even on the basis that the Basildon site and the eRCF is developed. The capacity gap for C&I facilities exceeds the capacity of the proposed development. Moreover, the waste management capacities of the RCF and eRCF are similar for imported waste of similar composition, and therefore the 'need' for the treatment capacity has arguably already been established. [6.4, 6.6, 6.12, 6.25, 8.1, 10.3, 10.17, 11.3]

13.45 The figures put forward by the applicants suggest that without thermal conversion of residual waste, Essex would need to permit at least 1 or 2 new large landfills. Such capacity is unlikely to come forward because of the difficulty of securing planning permission for disposal capacity where insufficient treatment capacity exists further up the waste hierarchy. Thermal treatment of residual waste, incorporating CHP, is supported by the WSE 2007 and ECC's OBC 2008. It increases the level of recovery and reduces pressure for additional landfill. The CHP would make use of imported solid recovered fuel (SRF) from other permitted waste management facilities in Essex. Although the LCG argues that this would be a marketable fuel, the SRF could go to landfill if an end user is not found. The LCG submits that the use of the SRF merely meets a secondary or ancillary need. However, ensuring that good use would be made of such fuel meets a material need in my judgment. Moreover, the CHP would reduce the need for landfilling of residuals from the MBT, and by using residues from the paper pulp recovery process as a fuel, it would remove a need for offsite disposal of such material and the potential for it to be sent to landfill. [6.18, 7.16, 7.31, 8.2]

13.46 The LCG argues that there is no primary need for the eRCF because ECC would allow all potential operators to have access to the Basildon site on equal terms and thereby meet its need to deal with MSW arisings at that site. However, the eRCF would accommodate the only proposed CHP facility capable of treating the SRF to be produced by MBT through the MSW contract. Moreover, I agree with the applicants that the need for the eRCF is unaffected by the fact that it is not the reference project in ECC's OBC 2009. The reference project was amended to a single site not because ECC considered the application site to be unsuitable, but because ECC did not have control over it. ECC confirms that the eRCF would provide suitable technology for the proposed ECC waste contract. It submits that the significance of the OBC is that it provides evidence of ECC's need for an operator and site to handle its MSW contract. The eRCF would be able to bid for that contract and the additional competition it would introduce would be welcomed by the WDA. The eRCF could meet ECC's need to dispose of its MSW, quite apart from its capacity to meet C&I waste arisings. [6.10, 6.21, 7.15]

13.47 The treatment capacity gap for C&I waste is such that even if the applicants did not win the ECC MSW contract, there is a sufficient need for the site to deal solely with C&I waste. The proposal put forward by Glendale Power for a 30,000 tpa AD power station and associated CHP system at Halstead is at an embryonic stage. Even it were to proceed, there would still be a need for waste treatment facilities in Essex of a greater magnitude than the capacity of the eRCF. [6.25, 6.28, 11.18]

13.48 It is argued by some objectors that there is no need for the development because recycling rates are increasing throughout the country and the application proposal could undermine efforts to increase recycling. There is no doubt that significant improvements in the separation of waste and subsequent recycling are taking place. This could well reduce the quantity of waste that would need to be sent to a facility such as the eRCF. However, the eRCF has the potential to increase still further the amount of recycling, treatment and recovery of waste in the County, and it seems to me that such facilities will be necessary to help ECC to meet its waste targets. There is no reason why the proposal should obstruct a continued increase in the recycling and recovery of waste. [6.23, 10.2, 10.32, 11.14]

13.49 I appreciate the concern that recyclable material should not be incinerated. Such an approach encourages the treatment of waste at a lower level in the waste hierarchy than need be the case. However, the application proposal would provide facilities to maximise the recovery of recyclable material and there is no reason to believe that materials which could reasonably be recycled would be used as fuel in the CHP.

13.50 With regard to the proposed MDIP, the LCG points out that only about 36% of recovered paper is likely to be suitable for use at the facility. It is argued that the applicants are over ambitious in their approach to the amount of feedstock that would be available. However, I am mindful that there will be no MDIP facility in the UK after 2011 to produce high quality paper pulp. The proposed MDIP at Rivenhall would be capable of meeting the needs of Essex and the East of England in terms of the recycling and recovery of high quality paper, thus meeting WSE 2007 key objectives. The facility is likely to stimulate greater recovery of high quality paper waste. I agree with the applicants that it would help to divert a significant quantity of paper and card from landfill. At present some 713,000 tpa of such waste is currently landfilled in the East of England. The MDIP would provide a facility to meet the needs of a wider area in accordance with EEP Policy WM3. [6.12, 6.20, 7.17, 8.7-8.12, 10.29]

13.51 In summary, I consider that the eRCF would help to satisfy a substantial and demonstrable need for MSW and/or C&I waste to be dealt with in Essex and for ECC to meet challenging targets set out in the EEP. The individual elements of the integrated plant would also help to satisfy various needs, including the need to move the treatment of waste further up the waste hierarchy and minimise the amount of waste that would otherwise be sent to landfill. I conclude that a need has been demonstrated for waste treatment facilities having a capacity at least that of the proposed eRCF.

vi. The viability of the proposal

13.52 Objectors question the viability of the scheme as a whole, and in particular that of the proposed MDIP. They point out that a full viability appraisal has not been provided by the applicants. Sufficient feedstock for the MDIP would not be available within the East of England Region and the operators would be reliant on their ability to offer competitive prices for feedstock. Furthermore, it is argued by objectors that it would be cheaper to produce pulp on the same site as a paper mill in an integrated paper production process. This would remove the need to dry the pulp prior to transportation. [8.11-8.13]

13.53 Clearly the proposed MDIP would require a large amount of feedstock. This would increase the demand for high quality paper waste and could well lead to an increase in the price of such waste on the open market. However, this, in turn could encourage increased recovery of high quality paper waste and ensure that better use is made of such waste.

13.54 The applicants submit that there is genuine commercial interest in the eRCF proposals from potential operator partners and key players. They point out that negotiations are presently taking place in relation to various aspects of the proposed MDIP, but these are commercially confidential. This is understandable given the present status of the scheme. Notwithstanding this, it seems to me to be a logical argument that the capital cost of the MDIP would be less than a stand alone facility, as it would be part of a much larger scheme. Moreover, relatively cheap power would be available from the CHP, thereby enabling the MDIP to operate competitively. I accept that the cost savings achieved by using heat and electricity generated by the CHP are likely to outweigh the additional costs of drying the pulp and transporting it to a paper mill. I have no reason to doubt that the MDIP would be capable of competing with a similar facility sited at a paper mill and in this respect it is a viable proposal. [6.42]

13.55 The applicants point out that the planning regime does not normally require a developer to prove viability. It is submitted that the issue of viability has arisen primarily because of EEP Policy WM3, which, although seeking a reduction in the amount of waste imported into the region, acknowledges that specialist waste facilities such as the MDIP, may have a wider than regional input of waste. However, the policy indicates that allowance should only be made for such facilities where there is a clear benefit, such as the provision of specialist treatment facilities which would not be viable without a wider catchment and which would enable recovery of more locally arising wastes. In relation to Policy WM3, viability is only an issue if the facility is one "*dealing primarily with waste from outside the region*". At paragraphs 13.144 – 13.149 below, I consider Condition 30 which seeks to restrict the amount of feedstock for the MDIP from outside the region. I conclude in that section that 50% of the feedstock should be sourced from within the region. On that basis, the issue of viability does not arise in relation to Policy WM3.

vii. The fallback position

13.56 Objectors argue that little weight should be placed on the extant permission for the RCF as there is no evidence that it would be implemented. It is pointed out that ECC resolved to approve the application for the RCF in 2007, yet planning permission was not granted until 2009 after the completion of the relevant

S106 agreement. Moreover, it is claimed that the applicants have described the RCF as an indicative scheme and acknowledge that it no longer represents the most suitable technology having regard to the JMWMS. Objectors point out that there is no evidence of detailed marketing or negotiations between the applicants and a waste operator, and to date no steps have been taken to implement the permission. [8.49-51]

13.57 The applicants have made no secret of the fact that they wish to provide a facility at Rivenhall airfield that would be capable of winning a major contract to deal with MSW arising in Essex. It seems to me that the eRCF is a major amendment to the RCF intended to maximise the chances and capability of winning a contract to deal with MSW arising in Essex. It is understandable that the applicants seek to build a facility that would be capable of dealing with as wide a range of waste as possible. A plant which is capable of dealing with large quantities of MSW and/or C&I waste (and in this case is combined with a specialised waste paper facility), provides considerable flexibility in terms of the type of waste that could be treated and the customers that could be served. It seems to me that such flexibility helps to maximise the economic viability of the project.

13.58 However, there is no overriding evidence that the RCF would not be viable. On the contrary, it seems to me that it would be capable of dealing at least with a substantial element of the County's MSW, and if this work failed to materialise it would be capable of dealing with C&I waste. ECC indicate that the RCF is consistent with, and would further, the aims of the JMWMS. [6.8, 7.15, 7.48]

13.59 Although the RCF proposal was put forward some years ago, the permission is recent and up to date. It is not surprising that details of any negotiations between the applicants and waste operators in relation to the building and operation of the RCF have not been put before the inquiry, partly because of commercial confidentiality and partly because of the present uncertainty regarding the outcome of the planning application for the eRCF. It is conceivable, if not likely, that any such negotiations regarding the RCF are on hold until the fate of the eRCF proposal is determined. [6.9]

13.60 For these reasons, I consider that there is a reasonable prospect of the RCF proposal being implemented in the event that the eRCF proposal is refused. Accordingly, I conclude that the RCF permission establishes the principle of large scale waste management at the application site, and that the potential environmental impacts of the RCF are a material consideration in the present case. [6.6, 7.49]

viii. The flexibility of the development

13.61 It seems to me that if a proposal is to be sustainable and economically viable in the long term, one of its attributes must be a degree of flexibility to accommodate future changes in waste arisings and in waste management techniques and practices. I agree with the SWFOE that the achievement of recycling targets will change the amount and constitution of residual waste. [10.2]

13.62 The SWFOE argues that as incinerators normally have a 25 year life span and require a constant supply of fuel, the whole eRCF system would be very inflexible. Objectors to the eRCF point to a need for flexibility in dealing with waste in future. Moreover, I note that Chapter 5 paragraph 23 of WSE 2007 indicates that

building facilities with an appropriate amount of flexibility is one of the keys to ensure that high rates of recycling and EfW can co-exist. [10.4, 10.24, 11.14]

13.63 I am mindful that the eRCF would have multiple process lines. For example, the MBT would have five autonomous process lines. The applicants argue that each of the facilities would have an inherent flexibility of capacity. The MRF would have the ability to allow rejects from one process line to become the feedstock of another. Moreover, minor modification to the MDIP would allow the facility to produce tissue paper pulp and it would be possible to introduce secondary treatment of the sludge from the MDIP to recover an aggregate. [6.97]

13.64 It is arguable that the integrated nature of the proposed eRCF; its exceptionally large scale; and the very significant amount of investment that would obviously be needed for its development would, in combination, result in a degree of inflexibility. On the other hand, the modular nature of the design, the flexibility of capacity of each process, and ability to make alterations to various modules would allow the eRCF to be adapted to varying compositions of waste. Moreover, the multiple autonomous process lines would allow a particular process to be upgraded in stages if necessary. For example, a CHP process line could be upgraded or replaced without shutting down the entire CHP process. In this respect, the large scale of the development provides opportunity for changes to be made to the process without endangering the overall viability of the operation.

13.65 On balance, I consider that the design of the proposal and its multiple autonomous process lines would provide a reasonable and sufficient degree of flexibility to enable future changes in the composition of waste and the ways in which waste is managed to be accommodated. In this respect, the scheme would not be detrimental to the achievement of increased rates of recycling.

ix. The effect on the living conditions of local residents

13.66 The eRCF proposal has the potential to cause harm to the living conditions of local residents in a number of ways. Some of the impacts are dealt with in other sections of these conclusions. I consider the issues as follows:

Noise and disturbance

13.67 Objectors point out that existing noise levels in the locality are low. It is especially quiet at night. The main potential sources of noise and disturbance from the proposal arise from the construction process, the operating of the IWMMF, and from traffic generated by the development. It seems to me that the greatest potential is likely to be during the construction phase. This is the period when maximum noise levels are predicted. The applicants have used the three suggested methods of assessment given in BS 5228:2009 Part1: Noise to consider the impact of construction noise. These all show that there would be no significant impact from construction noise at neighbouring residential receptors. The predicted construction noise level falls within the range 44 dB(A) to 52 dB(A). Moreover, the assessment of construction noise has been undertaken on a worst case scenario, as the work would include excavations, and it is highly likely that the change in landform would result in considerably greater attenuation of noise levels at receptors than predicted. [6.122, 6.123, 8.39, 8.40]

13.68 I agree with the applicants that the potential for noise from vehicle reversing alarms and the sounding of vehicle horns could be adequately controlled by appropriate management of the site.

13.69 Noise and disturbance generated by the operation of the plant would also be mitigated by the low level siting of the development and the partial screening provided by bunding. The waste management operations would be undertaken within environmentally controlled buildings, sited below surrounding ground level. The buildings would be insulated with acoustic cladding to reduce noise, and vehicles would enter and leave the building through high speed action roller shutter doors. The reception of waste would be limited to the operating hours of 07.00 to 18.30 on weekdays, and 07.00 to 13:00 on Saturdays. The assessment of operational noise level at all receptor locations for both day and night time periods shows that noise levels of operations would be below the level of 'marginal significance' according to British Standard 4142. The physical noise levels predicted for daytime operations fall within the range of 22 to 34 dB(A), and 22 to 30 dB(A) for night time periods. I am satisfied that such levels of noise would not have a material impact on the amenity of local residents. [6.123]

13.70 A significant proportion of the proposed extension to the access road would be in cutting, which would help to attenuate the noise of HGVs on this road. Moreover, lorries would be unloaded and loaded within the environmentally controlled buildings. The applicants point out that the change in noise levels attributable to increased road traffic flows resulting from the eRCF would be imperceptible, being considerably lower than 1dB. [6.125]

13.71 With regard to the tranquillity mapping described by the CPRE, the applicants argue that the site of the IWMF appears to be near the middle of the scale, suggesting that it is neither tranquil nor not tranquil. On the other hand, the version of the map supplied by the CPRE suggests that it is nearer the tranquil side of the scale. From my inspections of the site and its surroundings I am inclined to agree with the CPRE on this point, when considering noise. Although I conclude that the development would not have an unacceptable impact on the residential amenity of local residents as a result of the generation of noise, it seems to me that the development would have some detrimental impact on the present tranquillity of the area. However, bearing in mind the reasonably low levels of noise that would be generated, particularly during the operating phase of the facility, I am not convinced that the impact on tranquillity would be serious, once the construction operations are complete. [6.124, 9.4]

Air quality, odour and dust

13.72 Objectors are concerned about the impact of the development on air quality as a result of emissions from the stack; odours from the operations of the IWMF; and from additional traffic generated by the development. With regard to air quality, the SWFOE points out that no predictions have been provided for PM_{2.5}. However, as indicated at paragraph 13.91 below, even if all particles emitted from the eRCF were assumed to be PM_{2.5} the predicted maximum concentrations of such material would be 0.14 µgms/m³ which is significantly less than the target value of 25µgms/m³. [6.118, 10.13, 10.46]

13.73 Objectors submit that traffic emissions should have been added to the predictions. Air standards legislation should have been the definitive requirement, rather than the guidance in the Design Manual for Roads and Bridges (DMRB). [10.13]

13.74 As a requirement of the Environmental Permit (EP), the applicants would be required to demonstrate that the eRCF would not have a significant impact on local air quality. Notwithstanding this, the applicants point out that the environmental assessment already undertaken has demonstrated that the impact on air quality would be acceptable. Dispersion modelling has been used to predict airborne ground level concentrations of emissions from the stack. Certain emissions would be continually monitored, whilst others, which cannot be monitored continuously, would be monitored on a regular basis. The impact on air quality from stack emissions would be minimised by the use of exhaust gas scrubbing facilities and filters. No visible plumes are predicted to be emitted from the stack. [6.48, 6.51, 6.112, 6.114, 6.116]

13.75 The reception, shredding and sorting of waste, and the MBT processes, would be carried out within buildings which would operate under negative air pressure, thereby allowing odours and dust generated by these processes to be dealt with within the IWMF. The continuous 24 hour operation of the plant would ensure that the holding and storage times of unprocessed waste would be minimised, which would help to reduce the amount of odour generated within the plant. I am satisfied that current pollution control techniques would ensure that odour, dust and bio-aerosol emissions from the operations would not cause harm to human health or local amenity. [5.24]

13.76 As regards vehicle emissions, I am mindful that the total number of HGV movements associated with the operation of the proposed eRCF would not exceed 404 per day. Nevertheless, an assessment of the air quality impacts due to this traffic has been undertaken using the DMRB methodology. This demonstrated that traffic related pollutant ground level concentrations would be very small, even if it were assumed that all of the traffic associated with the IWMF accessed the site from an easterly or westerly direction. Although SWFOE argues that air standards legislation should have been the definitive requirement, I am mindful that the number of HGV movements would not increase from that already permitted for the RCF. Notwithstanding this, the DMRB assessment shows that the impact of vehicle emissions on air quality would not be significant. [6.117, 10.13]

Litter

13.77 A number of objectors are concerned that the proposal would lead to problems of litter and would attract vermin. However, waste would be delivered in enclosed vehicles or containers and all waste treatment and recycling operations would take place indoors under negative air pressure with controlled air movement regimes. I consider that these arrangements would ensure that litter problems would not arise and that the operation would not attract insects, vermin and birds. [5.24, 11.8]

Light Pollution

13.78 Many objectors are concerned that the eRCF would cause light pollution in an area that is light sensitive. However, outside the working hours of 0700 to 1830

there would be no external lighting, other than that used on an infrequent and intermittent basis for safety and security purposes. The LCG is sceptical as to whether such an arrangement would be practical. However, I see no reason why the plant could not be operated in this way. Internal lights would either be switched off or screened by window coverings during night time operations. Moreover, it is intended that external lighting levels would have an average luminance of 5 lux. The applicants indicate that external lighting units would be sited a maximum of 8m above finished ground level and that the use of flat glass luminaires at 0° tilt would produce no upward light. Given the depth of the excavation in which the buildings would be sited, it would appear that most lights would be sited below surrounding ground level. Moreover as the proposed extension to the existing access road would be constructed in cutting, lights from vehicles travelling to and from the eRCF on this section of the road would be screened from view. [6.83, 6.84, 8.44-47, 9.29, 11.13, 12.16]

13.79 Nevertheless, I am mindful that there is little or no artificial light at present in the vicinity of the site and that the area is valued by local residents for its clear skies in terms of light pollution. Even with the measures proposed by the applicants, it seems to me that the development could well create some light pollution and thereby cause some detriment to the amenities of the area in this respect. However, I consider that the proposed lighting arrangements, (which could be adequately controlled by condition as discussed in paragraph 13.153 below) would limit this impact to an acceptable level. In the wintertime there would be some impact during the hours of 0700 to 1830, but this would be kept to a minimum by the proposed methods of external lighting. Outside those hours, light pollution would occur on a relatively infrequent basis for short periods. As I indicate below, I am satisfied that Condition 44 would enable ECC to ensure that the potential for light spillage would be minimised.

Outlook

13.80 I deal with the visual impact of the development on the landscape at paragraphs 13.23 – 13.31 above. The siting of the IWMMF below ground level would significantly reduce the visual impact of the proposed building that would otherwise occur. Moreover, the proposed dark colour and green roof of the main structure would make the buildings recessive and help them to blend into the background. The roof of the proposed IWMMF and the stack would be visible from properties on the eastern edge of Silver End, from Sheepcotes Lane and Cuthedge Lane. Sheepcotes Farm is probably the closest to the site, being about 600 metres to the west. However, that dwelling is screened from the site by tall conifer hedging and is situated close to Hangar No 1 on the airfield, and the existing telecommunications tower. It seems to me that the development would have little impact on the outlook from this dwelling. [6.78]

13.81 There are a number of dwellings in Silver End from which the site would be visible, including the listed dwelling known as Wolverton. However, these dwellings are at least 1km from the application site. Bearing these distances in mind and the intervening vegetation, I consider that the development would not have a serious impact on the outlook presently enjoyed from these dwellings. In reaching this conclusion, I have had the benefit of visiting the area on a number of occasions and the evidence presented in relation to the various montages.

13.82 Dwellings such as Herons Farm, Deeks Cottage, and Haywards Farm are sited off Cuthedge Lane to the north of the application site. There would be a noticeable deterioration in the existing view from Deeks Cottage. The applicants recognise that Deeks Cottage would experience moderate adverse visual impacts as a result of the proposed facility during construction and the early years of the facility's operation, although they consider it to be the only property that would be affected to such an extent. Herons Farm appears to be partially screened from the application site by a bund presently in place to screen the existing quarrying operations, although this bund is likely to be removed in due course. These dwellings are between about 700m and 1km from the site of the proposed IWMF. Although there would be some detrimental impact on the outlook from these properties, I again consider that it would not be so serious that planning permission should be withheld for this reason. Given the distances between the properties, the flat nature of the intervening ground and the measures taken to reduce the visual impact of the development, it seems to me that the proposal would not be an overbearing or unacceptably intrusive feature in views from these properties. [2.13, 6.79, 8.20, 9.10, 9.11, 9.13]

13.83 Views of the top of the proposed stack would be visible from properties to the south of the application site in the vicinity of Western Road and Parkgate Road. However, these dwellings are well over 1km from the application site and in most cases there are significant blocks of woodland between the dwellings and the site. I consider that the views of the top of the stack that would arise from this direction would have no serious impact on the outlook from these dwellings.

13.84 Long distance views of the development would be possible from some locations on high ground to the north of the A120. Similarly, long distance views of the top of the proposed stack would be possible from some properties between Coggeshall Hamlet and Kelvedon. However, the views of the development would be so distant that it would have no significant impact on the general outlook from these properties. [8.21]

Conclusion on impact on living conditions

13.85 There would be some detrimental impact on the living conditions of occupiers of residential properties in the locality. There would be an increase in the level of noise in the area, although this would primarily be confined to the construction phase and even then would be well within acceptable limits. There would also be some impact on the tranquillity of the area and a small increase in light pollution, although these would be limited and minor. I am satisfied that air quality could be adequately controlled and there would be no noticeable emissions of dust or odour. The outlook from a small number of properties would be detrimentally affected, but again the impact would be relatively minor. Overall, I conclude that the proposal would not have an unacceptable impact on the living conditions of local residents.

x. The risks to human health

13.86 Many local residents have expressed fears that the eRCF would lead to deterioration in air quality and would present a risk to human health. The SWFOE argues that dioxins cannot easily be continuously monitored and escapes could occur between monitoring sessions. However, the applicants point to the advice in PPS 10

that modern, appropriately-located, well-run and well-regulated, waste management facilities operated in line with current pollution control techniques and standards should pose little risk to human health. The human health modelling presented in the Addendum ES indicates that the risks to human health from the proposed eRCF would be negligible. The predicted daily exposure for all contaminants of potential concern is less than the relevant toxicological benchmark. [6.112, 10.13, 10.46, 11.14]

13.87 Dispersion modelling, used to predict airborne ground level concentrations, shows that with a stack height of 35m (above existing ground levels), the predicted pollutant concentrations would be substantially below the relevant air quality objectives and limit values, except for arsenic. However, the assumed emissions of arsenic were substantially overestimated because, for the purposes of the model, the emissions of arsenic were assumed to be at the same level as the whole of the group of nine metals within which it fell in the assessment. This was an extreme worst case assumption, and considered by the applicants to be implausible, as it could result in an emission nine times the emission limit for the group of metals as a whole. The applicants argue that it would be more appropriate to specifically limit the emissions of arsenic, as opposed to increasing the height of the stack. [6.113]

13.88 Although this approach would rely heavily on the monitoring of emissions to ensure that there is no risk from emissions of arsenic, I am mindful that the assessment uses a new and far more stringent air quality limit for arsenic, which is not due to be implemented until 2012. Moreover, realistic estimates of arsenic emissions based on sampling and analysis of emissions from waste incinerators elsewhere show that arsenic levels would be significantly lower than that assumed in the dispersion modelling assessment. I note that the EA and the Primary Care Trust have not raised objections to the proposed eRCF [6.114, 7.33]

13.89 The LCG and CG point out that there is a statutory requirement to ensure that air quality is not significantly worsened, yet the emission of contaminants from the IWMF would result in deterioration of air quality. I am mindful of the advice in PPS23 that planning authorities should work on the assumption that the relevant pollution control regime will be properly applied and enforced. As I conclude at paragraph 13.158 below, it is unfortunate that further progress has not been made in discussions between the EA and the applicants regarding the height of the stack that would be necessary. Nevertheless, the EA does not appear to have an objection in principle to the IWMF. The applicants point out that as a requirement of the Environmental Permit (EP), they would have to demonstrate that the eRCF would not have a significant impact on local air quality and human health. This could be achieved by means other than increasing the stack height. In fact, a dilute and disperse approach by using a taller stack is one of the least preferred methods for controlling the impact of industrial emissions. Preference is given to abatement and the reduction of emissions at source. The applicants submit that the CHP plant could operate at substantially more stringent emission limits, thereby providing an alternative option for reducing the impact of the plant on local air quality. [6.49, 8.41, 9.22]

13.90 With regard to traffic emissions, the CG points out that there are high levels of NO_x at the junction of the A12 and A120 at Marks Tey. It is one of 18 air quality hot spots in the county and the additional HGV movements associated with the IWMF would exacerbate this situation. However, the proposed 404 additional

HGV movements associated with the eRCF are the same as that proposed for the RCF, for which planning permission has already been granted. Although the DMRB screening criteria does not require a detailed air quality assessment in this case, an assessment was undertaken using the DMRB methodology as a result of concerns about possible changes in the split of traffic on the A120. Even with an extreme assumption that all of the development traffic accessed the site from a single direction, it was shown that development traffic would not have a significant impact on air quality.

13.91 The SWFOE is concerned that no predictions have been provided for PM_{2.5} and a limit value of 25µgms/m³ for PM_{2.5} is likely to be introduced into the EU Air Quality Directive before 2015. However, even if it were assumed that all particles emitted from the eRCF were comprised of the fine fraction (PM_{2.5}) the predicted maximum concentrations of such material would be 0.14 µgms/m³ which is significantly less than the target value of 25µgms/m³ and effectively negligible. [6.118, 10.13]

13.92 The Human Health Risk Assessment (HHRA) indicates that the risks to human health are negligible since the predicted daily exposure for all contaminants of potential concern is less than the toxicological benchmark. SWFOE questioned the exclusion of certain pathways from the HHRA, although the applicants had undertaken a survey beforehand to establish which pathways were likely to be realistic. This indicated that meat production does not take place in the immediate locality. Nevertheless, additional modelling was undertaken to include the ingestion of homegrown pork and beef, and milk from homegrown cows. Again, the analysis demonstrated that the risks to human health would be negligible. [6.119]

13.93 Despite the results of the assessments undertaken by the applicants, many local residents remain concerned about the potential health risk of emissions from the eRCF. Local residents' fears about the harmful effects on health of such a facility are capable of being a material consideration, notwithstanding that there may be no objective evidence to support such a fear. By itself, unfounded fear would rarely be a reason to justify withholding planning permission. Nevertheless, it seems to me that the anxiety caused by the potential risk of pollutants, even though the physical health risks may be negligible, could have an impact on the well being and the living conditions of local residents.

13.94 Many residents would like to see regular monitoring of air quality at specified receptor locations as a means of providing assurance regarding the risk of health from emissions at the plant. I can see merit in this approach but I have to accept that such measurements may not provide results which accurately reflect the impact of emissions from the eRCF. I consider the matter at paragraph 13.162 below and conclude that more meaningful and accurate measurement of emissions from the plant would be obtained by regular monitoring of emissions from the stack itself. This would have the advantage of providing emissions data for a wide area, rather than at a few specific locations, and would ensure that the collected data related to emissions from the plant. The S106 agreement would ensure that such information would be available to local residents by means of the proposed Site Liaison Committee. [6.114, 8.43, 12.23]

13.95 In conclusion, I am satisfied that the plant could be operated without causing any material harm to human health, and that this matter would be

adequately dealt with by the Environmental Permitting regime. Despite this, the concern of local residents regarding the risk to health, albeit unfounded, would remain as a detrimental impact of the development. Nevertheless, these fears would be ameliorated to some extent by the proposed arrangements for the results of monitoring of emissions to be provided to the Site Liaison Committee.

xi. Highway Safety and the Free Flow of traffic

13.96 As previously indicated, the impacts of the present proposal must be considered in the light of the extant permission for the RCF, which in my judgment provides a fall back position. In relation to the RCF there would be no control on the daily number of HGV movements by means of a condition. Notwithstanding this, the applicants indicate that the eRCF would generate no more than the 404 daily HGV movements anticipated in relation to the RCF. In this respect it is arguable that the proposal would have no greater impact than the scheme already permitted. [6.68]

13.97 The access road that would serve the development would link directly onto the A120, which is part of the trunk road network. The S106 agreement provides for traffic routing arrangements to ensure that HGVs travelling to and from the site use a network of main roads and thereby avoid the local road network. Local residents argue that the A120 is frequently congested and the additional traffic generated by the development would exacerbate this situation. Moreover, it is argued that it would not be practical to enforce the traffic routing arrangements and that HGV drivers would use the local road network to gain access to and from the site where a shorter route was available, or when the main road network was congested. The LCG submits that vehicles would be arriving from a wide range of places and that the eRCF operator would not have control over many of these vehicles. [8.37, 9.15, 10.38, 10.39, 10.44, 10.46]

13.98 I agree that many of the local roads in the area are narrow, winding and unsuitable for use by HGVs. However, the applicants point out that the eRCF would not be open to the public and the operator would have control over deliveries and the despatch of material to and from the proposed plant. Under such circumstances, I am satisfied that it should be possible to ensure that traffic routing arrangements are enforced. [6.68, 9.17]

13.99 There is no doubt that volumes of traffic on the A120 are such that the road has reached its practical capacity and sections are regularly congested. However, as the applicants point out, for the most part this congestion occurs at peak times and the road should not necessarily be regarded as unable to accommodate additional traffic. During my site visits, I saw queues developing at peak times, particularly near Marks Tey where the A120 meets the A12. However, on most of these occasions, traffic continued to move, albeit slowly, and the levels of congestion were not unduly serious. Nevertheless, these were merely snapshots on particular days and I have no doubt that far more serious congestion occurs on a not infrequent basis. [6.71, 8.32, 9.16]

13.100 Notwithstanding this, it is likely that much of the traffic associated with the eRCF would travel outside peak periods and would not add to congestion problems. It must also be remembered that by restricting daily HGV movements to no more than 404, the proposal would not increase volumes of traffic over and above the figures associated with the RCF which has already been approved.

13.101 Many objectors doubt whether the eRCF could operate at full capacity with only 404 daily HGV movements. I have some sympathy with this argument as it was previously anticipated that the RCF would also generate 404 daily HGV movements, yet the RCF would involve the movement of 906,000tpa of material compared to the 1,272,075tpa associated with the eRCF, an increase of about 40%. The applicants have derived the HGV movements for the eRCF on the assumption that each lorry would be carrying the maximum weight permitted for that vehicle, arguing that there is no reason to believe that the operator or hauliers would wish to operate on the basis of sub-optimal loads. This is a logical argument, although I have some concern as to whether the calculations are somewhat theoretical and idealised, and do not make sufficient allowance for contingencies. [6.68, 8.28, 8.30, 11.7]

13.102 The applicants submit that there is no evidence that any specified number of HGV movements greater than 404 would have materially different or more serious implications in highways and transportation terms. This may be so, although it seems to me that the Highways Agency may well have required further information when consulted on the scheme, if the generation of HGVs was anticipated to be significantly greater than 404 movements per day. Notwithstanding this, the applicants have willingly agreed to the proposed planning conditions limiting the number of daily HGV movements to 404, and are satisfied that the eRCF could be operated economically and viably with such a restriction. They argue that the number of vehicle movements can be minimised by the use of 'back hauling' (i.e. using the same lorries that deliver material to the site to carry material from the site). [6.69, 8.31]

13.103 The site access road has junctions with Ash Lane and Church Road. Although there have been accidents at these junctions, it appears that the number of incidents have been few in number and it does not seem to me that the accident record is of serious concern. I note that the Highway Authority did not object to the application. The proposal would result in improvements at the junctions, and given the low volumes of traffic on the two local roads, I consider there is no reason to justify withholding planning permission for the development on the grounds of road safety at these junctions. [6.73, 6.74, 8.35, 9.18, 11.2]

13.104 For all of the above reasons, I conclude that the proposed restriction on the number of HGV movements is reasonable and appropriate and that the development would not have an unacceptable impact on highway safety and the free flow of traffic on the road network.

xii. The impact on the local right of way network

13.105 The network of footpaths in the area is well used. Three footpaths, including the Essex Way, cross the existing quarry access road. The proposed extension of the access road would cross footpath 35. Footpath 8 passes alongside the complex of buildings at Woodhouse Farm. [2.15, 8.18, 9.4]

13.106 Walkers on footpath 8 would pass close to the IWMF. Apart from seeing the stack, they would also, when approaching the site from the south, be likely to see the rear of the AD tanks, particularly in wintertime when many trees would have lost their leaves. A hedge would partially screen views from footpath 35, although it

is likely that walkers on footpath 35 would, on occasions, have views of part of the front of the building, which would be some 200m wide and 20m in height. The applicants acknowledge that users of footpath 35/68 to the north of the site would experience moderate adverse visual impact at Year 1 of operation, with other paths in the area assessed as minor adverse impact. [6.79, 8.18, 9.25, 9.31]

13.107 As indicated above, I have no doubt that the development would have some harmful effect on the present rural character of the area. This impact would be apparent to users of the footpath network. Moreover, the comings and goings of vehicles serving the site and activities at the site would also have a detrimental impact on the present tranquillity of the area. Nevertheless, these impacts would be ameliorated by the various mitigation measures such as hedge and woodland planting; the proposed dark colour of the building; the proposed green roof; the siting of the extension to the access road and the IWMF building itself within cutting (which would help to control noise and visual impact); and the intention to undertake all operations within environmentally controlled buildings. Overall, I consider that the impact on the right of way network would be detrimental but not to an unacceptable degree. [6.48, 6.89, 6.120]

xiii. Ground and surface water

13.108 The SWFOE submits that the proposed MDIP would require water over and above that obtained from recycling and rainwater collection. It is argued that water abstraction could have an impact on the River Blackwater and that a water study should have been undertaken to assess the impact of water requirements. Other objectors are concerned that the proposed eRCF could result in contamination of ground and surface water. [10.7, 11.9, 11.14, 12.28]

13.109 I am mindful that the proposals include the on-site collection, recirculation and treatment of water, minimising the need for fresh water. All surface water outside the buildings would be kept separate from drainage systems within the buildings. All drainage and water collected within the buildings and used in the Pulp Facility would be treated and cleaned within the Waste Water Treatment facility. It is anticipated that the IWMF would be largely self sufficient in water, by utilising rain/surface water, and would only require limited importation of water. This could be sourced from New Field Lagoon, which is part of the existing drainage system for the restored mineral working to the north, from licensed abstraction points, or obtained from the utility mains. Moreover, ground water monitoring would be undertaken and the results made available to the Site Liaison Committee. Bearing in mind the proposed methods for dealing with water; the monitoring that would be undertaken; the 1.5 km distance between the proposed IWMF and the River Blackwater; and the geology of the area with its significant clay strata, I conclude that the development could be built and operated without causing harm to the River Blackwater or causing contamination to groundwater. [5.27, 7.35,]

13.110 A number of objectors are concerned that the excavations involved in the development would result in the dewatering of soils to the detriment of existing trees and vegetation. However, the geology of the area suggests that existing trees rely on surface water, rather than ground water in the substrata. Clay is the dominant material in the soils beneath the woodland blocks. Woodland growth is separated from the underlying sand and gravel by over 6m depth of boulder clay. The trees are not dependent upon the groundwater locked in any aquifer below ground, but are

reliant upon moisture held within the subsoil and top soil that overlies the boulder clay. Any localized lowering of the water table as a result of excavations would have little impact on vegetation. [6.80, 8.26, 11.4, 12.20]

xiv. Loss of agricultural land

13.111 The development would result in the loss of almost 12ha of Grade 3a agricultural land, and in this respect the proposal is in conflict with local and national planning policies. However, there would be a similar loss if the RCF were constructed. Moreover, the impact of such a loss of best and most versatile agricultural land must be balanced against other sustainability considerations. [6.67, 6.105, 8.55, 8.58, 11.4, 11.13]

13.112 Although a loss of such agricultural land should be avoided where possible, ECC points out that the emphasis in the last 5 years has moved to soil resource protection. Soils stripped from agricultural areas would be re used sustainably. It would be used on screening bunds; on new areas of woodland and grassland; and to enhance the restoration of agricultural areas within the adjacent quarry. The proposed loss of Grade 3a agricultural land represents 0.3% of the Bradwell Hall Estate holding. Moreover, Woodhouse Farm is unoccupied, and could not form a 'commercial unit of agriculture' under the present agricultural cropping regime. It is also noteworthy that Natural England did not object to the proposal. For all these reasons, I conclude that the loss of Grade 3a agricultural land in this case is not an overriding issue. (6.105, 7.29)

xv. Habitats, Wildlife and Protected Species

13.113 About 19.1ha of open habitats would be lost. However, a large proportion of these are of low ecological value being arable land, species poor semi-improved grassland and bare ground. Mitigation measures include the planting of 1.8ha of new species rich grassland together with the provision of a further 1ha of managed species rich grassland to the east of Woodhouse Farm outside the Planning Application area. Moreover, the green roof on the main buildings of the proposed eRCF would be about 5ha in area and allowed to establish into open habitat. Bearing in mind that the new habitats would be the subject of an Ecological Management Plan, I agree with the applicants that the overall residual impact of the development is likely to be positive in terms of the value of open habitat. [5.20, 6.89, 6.90, 7.28, 11.2, 11.5].

13.114 Although between 1.6 and 1.7ha of existing woodland would be lost, the proposal includes planting of approximately 3.4ha of additional woodland and 2kms of new hedgerows. Objectors are concerned that the rate of growth of new vegetation is unlikely to be rapid and point out that the applicants accept that it would take up to 40 years to effectively replace some of the lost woodland. In the short term, I agree with objectors that the loss of woodland is likely to outweigh the positive impacts of the new planting. However, I note that the retained woodland would be managed to improve its diversity and screening quality. Bearing this in mind and the significant amount of new woodland and hedgerow to be planted and managed, it seems to me that the overall effect would be positive within a reasonably short space of time, despite the time necessary for woodland to provide significant screening. Certainly, in terms of habitat value the provision of additional

woodland and hedgerows would outweigh the loss of existing woodland within a short period. [5.19, 6.78, 6.90, 6.92, 7.28, 8.17, 8.20, 9.27]

13.115 With regard to protected and otherwise notable species, surveys have revealed that several species of bat utilise the site. In addition a small population of great nested newts were found and a range of bird species breed in the area. Brown hares can be found on the site. However, surveys for badger revealed only the presence of latrine sites. [6.88, 9.4]

13.116 Without mitigation the development would have a detrimental impact on protected species. However, the development includes a range of mitigation, compensation and enhancement measures. A number of ponds would be managed in the interests of great crested newts; bat boxes and various nesting boxes for birds would be provided; and buildings would be refurbished to provide specific roosting opportunities for bats. In addition habitats would be managed and created to provide foraging opportunities. I am satisfied that these and other measures would ensure that disturbance to protected species would be minimised or avoided. [6.88, 6.89]

13.117 Bearing in mind that the proposal includes the management of existing and proposed water bodies; the creation and management of new habitats; and the planting of woodland and hedgerows, I consider that overall it would enhance the bio-diversity of the area. [7.28]

xvi. The impact on Listed Buildings and the Silver End Conservation Area

13.118 When considering development proposals which affect a listed building or its setting, Section 66(1) of the Planning (Listed Buildings and Conservation Areas) Act 1990 requires that special regard be given to the desirability of preserving the building or its setting or any features of special architectural or historic interest which it possess. There can be no doubt that the proposed development would cause some harm to the setting of the Listed Building complex at Woodhouse Farm. The close proximity of such a large development, with its associated lighting and parking facilities, and the visible presence of the chimney stack would have some detrimental effect upon the rural setting which the building presently enjoys. In addition the movement of such a large number of HGVs in the locality would be likely to create some noise and disturbance and generate a sense of activity in the immediate locality. However, I must bear in mind the fall back position arising from the extant planning permission for the RCF and the fact that the existing rural character of the area is already compromised to some extent by the presence of the remnants of the former airfield; the nearby scrapyards at Allshot's Farm; and the ongoing mineral workings at Bradwell Quarry which are likely to continue until 2021. [2.5, 2.7, 4.4, 8.18, 8.19, 11.10]

13.119 More importantly, I am mindful that the Woodhouse Farm complex is in an extremely poor state of repair and that the site of the complex is overgrown, derelict and untidy. The proposal to refurbish the buildings and bring them into meaningful use would, in my judgment outweigh any harmful impact on the setting of the complex that would be caused by the IWMMF development. [2.6, 7.43, 9.7]

13.120 The setting of the Listed Building at Allshot's Farm is already severely compromised, in my judgment, by the presence of the nearby vehicle scrapyards.

Bearing in mind that this building is a further 400 metres beyond the Woodhouse Farm complex, I consider that the presence of the proposed development would have little or no impact on Allshot's Farm and its present setting would be preserved.

13.121 The listed building at Sheepcotes Farm is about 600m from the proposed IWMF. At present there is a tall conifer hedge at the rear of the plot which screens the farm buildings from the airfield. Moreover, the setting of the building is already influenced by the presence of the nearby former airfield hangar; the existing telecommunications tower; and the former runways of the airfield. The construction and operation of the IWMF would have some detrimental impact on the setting of Sheepcotes Farm. However, given the distance to the application site, the present conifer screening and the impact of existing development, I conclude that the effect of the proposed IWMF on the setting of the building would be minimal. [2.10, 9.13]

13.122 The other listed buildings in the locality, and the edge of the Silver End Conservation Area are at least 1km from the site of the proposed IWMF. Given these distances; the siting of the proposed IWMF and access road extension below existing ground levels; and existing intervening vegetation, which in some cases would provide significant screening, I am satisfied that the IWMF and its operations would have only a minor impact on the setting of these buildings and the conservation area. Moreover, because of the proposed hedgerow and woodland planting, and other landscaping works associated with the development, I consider that the scheme as a whole would preserve the settings of these buildings and of the conservation area. [2.9, 2.11, 2.12, 7.46, 9.12, 9.26, 11.15]

13.123 Section 72 of the above Act requires that special attention shall be paid in the exercise of planning functions to the desirability of preserving or enhancing the character or appearance of a conservation area. Paragraph 4.14 of PPG15 indicates that the desirability of preserving or enhancing the area should also be a material consideration when considering proposals which are outside the conservation area but which would affect its setting, or views in or out of the area. Bearing in mind my conclusion that the scheme as a whole would preserve the setting of the conservation area, I am satisfied, for the same reasons that it would also preserve the character and appearance of the Silver End Conservation Area. [6.137, 9.6, 9.8]

xvii. The historic value of the airfield

13.124 A number of objectors are concerned about the impact the development would have upon the historic value of the airfield. However, much of the airfield and its military buildings have disappeared. The applicants submit that the airfield is not a particularly good surviving example of a World War II military airfield. I have no detailed evidence which contradicts this view. The airfield facilities themselves are not designated or protected in any way. [6.77, 6.138, 10.36, 11.15]

13.125 I note that the provision within the S106 agreement relating to the Woodhouse Farm includes for an area to be set aside within the refurbished complex for a local heritage and airfield museum. In my opinion, this would be a practical method of recognising the contribution made by the airfield to the war effort and would be commensurate with the historic value of the site. I can see no justification for withholding planning permission at this site because of its historic value as an airfield. [5.13, 12.24]

Other matters

13.126 With regard to the suggestion put forward by Feering PC that provision be made for a flood lagoon at Bradwell to relieve flooding problems in Coggeshall, Kelvedon and Feering, I agree with the comments made in the ECC committee report of 24 April 2009 (Document CD/2/12A), that to require a contribution for such development would not be in accord with the criteria for planning obligations set out in Circular 05/2005. The application site is not located in a flood risk area and the scheme would have no impact upon the flows of the River Blackwater. [11.23]

Mitigation measures

13.127 As indicated above, the development would have some harmful impact on the environment. It would result in a loss of existing habitat, both open and woodland. It would generate a degree of activity, noise and disturbance, light pollution, potentially some odour, and would be detrimental to air quality as a result of the emissions from the plant and the HGV traffic that would be generated. It would result in a loss of Grade 3a agricultural land and would have a visual impact on the landscape, not least from the proposed chimney stack. The perceived risk to human health also represents a negative impact, albeit that I am satisfied that any such risk would be negligible and does not justify such fears.

13.128 In my judgment, the proposals include measures that would substantially mitigate these impacts. Moreover, the imposition of suitable conditions, IPPC control and the provisions of the S106 agreement would ensure that such impacts were kept within acceptable limits. In particular, I am mindful that the additional woodland planting, the proposed hedge planting and provision of replacement habitats, including the lagoon, the green roof of the building, and other features would mitigate against the loss of woodland and habitats. These features, in combination with the siting of much of the access road within cutting, the main building within an excavated area, the design of the main building in the form of two vast hangars, the siting and partial screening of the stack, would significantly mitigate the visual impact of the development within the landscape and the impact on the character of the area.

13.129 It seems to me that the impacts should be considered in the light of the extant permission for the RCF which provides a fall back position. On this point, I am mindful that there would no control on the number of HGV movements generated by the RCF in terms of a planning condition.

Overall conclusion

13.130 Although the development would cause harm in a number of ways, I consider that the proposed mitigation measures would ensure that such harm would be minimised to such an extent that there would be no unacceptable harm either to the environment or to the local population. On the other hand, the proposal would provide a range of important benefits, not least a means of undertaking waste management in a sustainable manner which would assist in meeting the challenging waste management targets set out in the EEP. Overall, I consider that the scheme's conflict with a small number of planning policies is far outweighed by the support given by a range of other planning policies and, on balance, it seems to me that the proposal is in accord with the development plan and Government guidance.

Conditions and obligations

13.131 I shall recommend that planning permission be granted for the eRCF subject to conditions. In the event that the SoS agrees and decides to grant planning permission it seems to me that such permission should be subject to the conditions set out in the central column of Appendix B of this report. The appendix is based on the final draft of the suggested list of conditions put forward by ECC (Document ECC/8). I have amended the list of conditions in the central column to reflect my comments below. In general, the conditions are reasonable and necessary and meet the tests set out in paragraph 14 of Circular 11/95. Where I make no comment on a condition set out in ECC/8, I consider that condition to be appropriate and necessary for the reasons set out in Appendix B and Document ECC/8.

13.132 I consider that a 5 year limit for commencement of the development as set out in Condition 1 is appropriate and realistic, bearing in mind the nature of the development and the need for an Environmental Permit to be obtained before work could realistically commence on site. Condition 2 is necessary to clarify the details of the development and to avoid any doubt as to the relevant drawing numbers. I have added this reason to the schedule.

13.133 It is necessary to limit the maximum number of HGV movements as set out in Condition 3, because no assessment has been made of the impact of a larger number of additional HGV movements on the trunk road network and there is no dispute that the network already suffers from congestion from time to time [12.3].

13.134 In the interests of road safety and to avoid congestion on the local road network it is important to take steps to minimise the likelihood of HGVs using local roads to gain access to and from the site. The traffic routing provisions of the S106 agreement would make an important contribution to this objective. To help make those provisions viable, I consider that it is necessary to log various details relating to each vehicle visiting the site. I therefore consider that it is necessary for Condition 5 to be amended to read that 'A written record of daily HGV movements into and out of the site shall be maintained by the operator from commencement of the development and kept for the previous 2 years and shall be supplied to the Waste Planning Authority within 14 days of a written request. The details for each vehicle shall include the identity of the vehicle operator, the type and size of the vehicle, the vehicle registration number, and an indication of whether the vehicle is empty or loaded.' [12.4].

13.135 The words 'Figure1-2 annexed hereto' should be deleted from Condition 8 and replaced with 'application drawing Figure 1-2'. The drawing is listed in Condition 2 and there is no need to attach the drawing to the formal grant of planning permission.

13.136 'Plan 1' referred to in Condition 13 can be found in the S106 agreement. The wording in the condition should be amended to reflect this.

13.137 Condition 14 seeks to control the design of the stack. The applicants seek the SoS's views on the acceptability of a 40 m high (above existing ground level) stack (rather than the 35 m high stack applied for) in the event that the EA requires a higher stack as part of the EP procedure. Although Condition 14 relates to

the design of the stack, Condition 56 controls the height of the stack and therefore Condition 14 would be unaffected by any such change in height.

13.138 I do not consider that it is appropriate to impose a condition requiring the buildings at Woodhouse Farm to be brought into a good state of repair. I agree with ECC that such works may require Listed Building Consent and a further grant of planning permission. It would be unreasonable to impose a condition requiring such development, as the applicants would not have control over the decision which permitted such development. I am satisfied that the matter is best covered by the provisions of the S106 agreement. [12.5]

13.139 I have concerns as to whether Condition 16 meets the tests for conditions set out in Circular 11/95, particularly in relation to necessity and its relevance to the development. I appreciate that BDLPR Policy RLP94 indicates that major development will make provision for the commissioning of suitable and durable public works of art, and that the site can be seen from the public footpath. However, the development would not be located in a public place and it cannot be readily described as falling within the public realm. Moreover, I am not convinced that a work of art at this location is either relevant to the development or would make a positive contribution to the environment and the wider community. For all these reasons, I consider that Condition 16 should not be imposed. [12.6]

13.140 I consider that Condition 17 should be imposed. It is important that all possible measures are taken to ensure that there is no visible plume from the stack. Not only would a plume give the area a somewhat industrialised character, but it would unnecessarily increase fears about the possibility of environmental pollution and risks to human health, no matter how unfounded those fears may be. I am not convinced that these are matters that would necessarily form part of the EP regime and would be dealt with by the EA. I am mindful of the LCG's concern that the condition does not categorically state that there will be no plume. However, it seems to me that the Condition in its present form adopts a reasonable and pragmatic approach to the matter. [12.7]

13.141 With regard to Condition 21, the LCG is concerned that the application drawings do not identify any parking areas for HGVs. However, I support the approach that substantial provision should not be made for the parking of HGVs in the open air on the site. To encourage such parking would not be beneficial to the character of the area. Condition 21 should remain unaltered. [12.8]

13.142 As the development has been partly promoted on the argument that the excess electricity produced at the plant would be sold to the National Grid, I have some sympathy with the LCG's submission that a condition should be imposed requiring such electricity to go to the National Grid. However, it is unreasonable to impose a condition requiring the applicants to meet a requirement which is not entirely within their control. It would plainly be in the applicants' interests to sell the excess electricity and I conclude that it would be unreasonable to impose such a condition on this issue. [12.9]

13.143 In relation to Condition 28, I agree with the applicants that restricting the sourcing of SRF from outside Essex and Southend, but within the remainder of the East of England for a period of only one year from the date of agreement with the WPA, could lead to problems of uncertainty. The ability to enter into contracts for

such a limited period could unreasonably handicap the applicants in the operation of the plant. Nevertheless, it is important that all possible efforts are made to ensure that such material is sourced from within the local area in the interests of the proximity principle and the ability of the plant to deal with local waste arisings. Changes in the availability of supply in the locality should therefore be accommodated within a reasonable period. It seems to me that a reasonable and realistic approach would be to adopt a time period of 3 years in this case. I therefore consider that the reference to '[one/five] years' in paragraph (ii) of Condition 28 be amended to 'three years'. [12.10]

13.144 Condition 30 is a source of conflict between the parties. The applicants argue that it would not be possible to source 80% of the feedstock for the MDIP from within the region and the relaxation contained in the condition would therefore have to operate from the outset. In this respect the condition is unreasonable. Moreover, it is pointed out that the MDIP would be a unique facility in the UK. Policy WM3 of the East of England Plan indicates that allowance can be made for specialist processing or treatment facilities to deal with waste primarily from outside the region where there is a clear benefit.

13.145 On the other hand, I am mindful that the figure of 80% is derived from the application. As ECC points out, the regulation 19 information provided by the applicants stated that the Region could provide a significant proportion, if not all of the paper feed stock for the MDIP. Moreover, Policy WM3 places some weight on a progressive reduction of waste imported into the East of England.

13.146 It seems to me that the MDIP would be of benefit in a number of ways. It would provide a means of recycling high quality waste paper in a beneficial way. It would reduce the need to use virgin fibre for making high quality paper and in due course it would probably encourage an increase in the amount of high quality waste paper that is recovered for recycling. In these respects, the facility could be of benefit to an area larger than the East of England region.

13.147 I have some concern that the applicants did not make it clear at the outset that in reality more than 20% of the feedstock would have to be sourced from outside the region. On the other hand, it would have been unduly optimistic to expect that nearly all the relevant potential feedstock in the East of England would become available for the MDIP.

13.148 If planning permission is to be granted, the condition should be realistic and reasonable. Moreover, it seems to me that there are a number of somewhat competing objectives in relation to this condition. Firstly, the distance that waste is transported should be minimised, in accordance with the proximity principle. Secondly, and linked to the first objective, the operators of the facility should be encouraged to source locally produced feedstock wherever possible and thereby contribute to the objective of self sufficiency in dealing with waste. Thirdly, the MDIP must be viable if the benefits which it could provide are to be achieved. The applicants argue that a restriction on feedstock in terms of the distance from source, rather than being based on the regional boundary would be more realistic, practical and capable of meeting the objective of minimising the distance waste is transported. A figure of 150 km is suggested.

13.149 There are clearly merits in this approach. However, in view of the proximity and overwhelming size of London, I am concerned that this approach could result in the vast majority of the waste paper feedstock being transported from London thereby reducing any incentive to encourage the sourcing of feedstock from within the region. I therefore support the general approach adopted by ECC, although I do not agree that a requirement for 80% of the feedstock to be sourced in East of England would be reasonable, even if the terms of the condition required ECC to authorise a greater proportion of imports if the 80% target could not be met. The applicants do not expect the facility to deal with waste primarily from outside the region and therefore it seems that a requirement for 50% of the waste to be sourced from within the region would be reasonable given the flexibility provided by the suggested condition. I conclude that Condition 30 should be imposed, subject to the figure of '20%' in paragraph (i) being replaced by '50%' and the figure of '80%' in paragraph (ii) being replaced by '50%'. I have amended two typing errors in the second paragraph, replacing 'operation' with 'operator' and 'cad' with 'card'. [6.37,6.38, 12.11, 12.12]

13.150 I have concern about the hours of working on a Sunday that would be permitted during construction by Condition 35. However, I am mindful that the development is sited some distance from the nearest residential dwellings and once excavation is completed a large proportion of the work would be undertaken below natural ground levels. Moreover, a similar condition applied to the RCF permission. Bearing these points in mind, the substantial nature of the development and the aim of completing construction within about 2 years to meet the likely demands for the facility, I conclude that Condition 35 should be applied in its present form.

13.151 I agree that Condition 38 should specify where noise measurements are to be made and that the following words should be included in the condition: 'Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects'.

13.152 PPS10 makes it clear that when assessing planning applications for waste management facilities consideration should be given to the likely impact of the proposal on the local environment and on amenity. Although the pollution control regime may well result in the application of noise limits to the processes that would take place at the eRCF, it is reasonable for the planning system to seek to control noise to ensure that residential amenity is not harmed. The LCG is concerned that Conditions 39 and 40 allow higher noise levels than predicted by the applicants. That may be so, but it seems to me that the limits applied by those conditions are reasonable and should ensure that residential amenity is not significantly harmed by noise generated at the site. Condition 42 allows higher levels of noise for temporary periods, but this is intended to allow operations such as the construction of bunds which in themselves would assist in reducing the impact of the development on residential amenity. I consider that the noise levels set out in these conditions are reasonable and that the suggested conditions should be imposed. [12.15]

13.153 With regard to Condition 44, I am mindful that the applicants have indicated that external lighting units would be sited a maximum of 8 m above finished ground level and that the use of flat glass luminaries at 0° tilt would produce no upward light. However, I am satisfied that Condition 44 would enable ECC to ensure that the potential for light spillage would be minimised and I accept ECC's

argument that excessive specification before a final lighting scheme is adopted could be counter-productive. There are a number of factors to be taken into account, including considerations of average and peak levels of lighting and the number and siting of lighting units. For these reasons, I conclude that Condition 44 should remain in its present form. [6.83, 8.39-42, 12.16]

13.154 I agree with ECC that Condition 52 should be imposed. Firstly, the pollution control regime would not necessarily be applicable to the excavation and construction of the plant. Moreover, odour has the potential to cause significant harm to residential amenity and the environment, and it is not unreasonable that the planning system should have some control over this highly controversial issue which can be difficult to control and enforce if measures are not taken to provide control at the outset. Although there could well be some overlap between the planning and pollution control regimes on this matter, it is not unreasonable that the planning authority should be satisfied that appropriate measures have been taken to control fugitive odours before beneficial occupation of the IWMF is permitted. [12.17]

13.155 With regard to Condition 55, I agree with the applicants that it would be unreasonable to prohibit the works set out in the condition from taking place during the bird nesting season, if such work would not affect nesting birds. Condition 55 should remain in its present form.

13.156 Condition 56 indicates that the stack height should not exceed 85 m AOD (35m above existing ground level). The applicants consider it unlikely that a taller stack would be necessary to meet the requirements of the pollution control regime. Nevertheless, if a taller stack were required, a further planning application under Section 73 of the 1990 Act would be necessary. The applicants seek the SoS's view as to whether a taller stack, up to 90m AOD, would be acceptable. Clearly, it is a matter for the SoS whether he wishes to comment on this matter. Generally, he would not be expected to do so, particularly if insufficient information was before him. In this case, the appellants have put forward some evidence on the matter, including at least one montage of a 40m high (90m AOD) stack. Moreover, the LCG has presented some counter evidence, together with a number of montages of such a feature.

13.157 Overall, however, less information has been provided about the impact of a 40m high stack compared to that which has been presented in relation to a 35 m high stack. It would be expected that the detailed assessment of a 40m high stack would be as thorough as that for a 35 m high stack, and in this respect I consider that insufficient information has been submitted in relation for example to montages from various locations, an assessment of zone of theoretical visibility, and the opinions of all parties who may be affected by such development. Clearly, a 40m high stack would have a greater visual impact than a 35m high stack and in this respect the balance of harm versus the benefit of the eRCF would be affected.

13.158 I am mindful that the advice in the Defra document entitled 'Designing Waste Facilities' indicates that the required height of emission stacks should not be underestimated (Doc CD/8/9 Page 74). It is unfortunate that further progress on this matter has not been made in discussions between the EA and the applicants. I appreciate that only the proposed operator can apply for an Environmental Permit, as indicated in the e-mail from the EA dated 5 October 2009 (Document GF/28) and that this requirement has prevented the applicants from making a formal application

to the EA. Although detailed discussions have obviously taken place, it seems to me that insufficient progress has been made, for whatever reason, because such an important issue as the required height of the stack has not been resolved. The advice in paragraph 28 of PPS10 that waste planning authorities and pollution control authorities should work closely to ensure integrated and timely decisions under the complementary regimes has not been followed insofar as such an important matter has not been assessed in some detail by the EA. It is not for me to determine why the advice has not been followed, but the result is that important information, which ideally should have been presented to the inquiry, has not been available.

13.159 On the basis of the evidence presented to date, and my inspections of the site and its surroundings, it seems to me that the benefits of the eRCF proposal may well outweigh the harm that the development would cause even if a 40m stack were required. However, until a more thorough assessment is undertaken and the views of all those who may be affected by such a change in the proposal have been thoroughly canvassed, it seems to me that no firm conclusions can be reached. With regard to the existing proposals, Condition 56 is appropriate.

13.160 Turning to Condition 60, the LCG submits that the management and watering of trees adjacent to the proposed retaining wall should continue during the operational phase of the development. However, evidence submitted by the applicants suggests that the trees rely on surface water in the topsoil and subsoil rather than on ground water in the substrata and ECC considers that there is therefore no need to continue watering after construction is complete. It is arguable that the future maintenance of the trees would be adequately covered by the provisions of the management plan for existing and proposed planting set out in the S106 agreement. Nevertheless, given the disturbance to the natural conditions which would be caused by the development, it seems to me that it would be wise to ensure that watering of these trees continued during the first growing season after the completion of construction if this proved necessary. I consider that the condition should be amended by including the words '*and throughout the first growing season after completion of construction where necessary*' after the words '*and construction of the IWMF*'.

13.161 I consider that the provisions of the S106 agreement are necessary to ensure that the necessary highway and access works are completed at the appropriate time in the interests of road safety; traffic routing arrangements are put in place again in the interests of road safety and to minimise any impact on the local road network; a Site Liaison Committee is set up and operates, to ensure good communications between the operator of the plant and the local community; the refurbishment of the Woodhouse Farm complex takes place in the interests of preserving the listed buildings and providing facilities that would be of benefit to the local community; a management plan is put into operation to mitigate the visual impact of the development and to enhance the ecological value of the area; to ensure that minerals are not extracted and the site then remains undeveloped; to ensure a survey of historic buildings is undertaken and the results are appropriately recorded; to ensure groundwater is monitored and any necessary mitigation measures are undertaken; to ensure the MDIP is operated as an integral part of the IWMF; and to provide for the setting up and operation of a Community Trust Fund for the benefit of the local community.

13.162 I can understand the desire of the community group and the LCG for ambient air quality monitoring to be undertaken at specified receptor locations and for the results to be made available to the local community. I have no doubt that the results of such monitoring could assist in allaying the fears of the local community about the potential of the plant to cause harm to human health and the local environment. However, as the applicants point out, such monitoring would be subject to a wide range of variables and would be of limited value in identifying the impact of the development itself. A more meaningful and accurate measurement of the emissions from the plant would be obtained from the regular monitoring of emissions from the stack. This is a requirement of the Waste Incineration Directive (WID) and would result in continuous monitoring of some emissions and regular periodic monitoring of others. It has the advantage of providing emissions data for a wide area rather than at a few specific locations and would ensure that emissions and modelling data related to the emissions from the plant. The S106 agreement provides for the results of such monitoring and also ground water monitoring to be presented to the Site Liaison Committee. I conclude that this approach would result in more meaningful measurements of emissions from the eRCF. [6.114, 12.23]

SECTION 14 - RECOMMENDATION

14.1 I recommend that planning permission be granted for the proposed Integrated Waste Management Facility comprising: Anaerobic Digestion Plant treating mixed organic waste, producing biogas converted to electricity through biogas generators; Materials Recovery Facility for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals; Mechanical Biological Treatment facility for the treatment of residual municipal and residual commercial and industrial wastes to produce a solid recovered fuel; De-inking and pulping paper recycling facility to reclaim paper; Combined Heat and Power Plant utilising solid recovered fuel to produce electricity, heat and steam; Extraction of minerals to enable buildings to be partially sunken below ground level within the resulting void; Visitor / Education Centre; Extension to existing access road; Provision of offices and vehicle parking; and associated engineering works and storage tanks. The permission should be subject to the conditions set out in the centre column of Appendix B of this report.

MP Hill

INSPECTOR

APPEARANCES

FOR THE APPLICANTS:

David Elvin QC assisted by Simon Pickles, of Counsel	instructed by Linklaters LLP on behalf of Gent Fairhead & Co Limited.
They called:	
Steven Smith BSc MSc	Associate, Golder Associates (UK) Ltd
Andrew Sierakowski BSc MSc LLM MRTPI MIHBC AMCIWM	Senior Minerals and Waste Planner, Golder Associates (UK) Ltd.
Ralph Keeble BSc MICE MCIWM	Director, Ralph Keeble Consulting Ltd.
Christine Marsh BA(Hons) DipLA MLA	Senior Landscape Architect, Golder Associates (UK) Ltd
Dr Amanda Gair BSc (Hons) PhD MIES MIAQM	Head of Air Quality Team, SLR Consulting.
David Hall BSc MSc CGeol MGS	Principal, Golder Associates (UK) Ltd.
Dr Ian James Fairclough MSc PhD MIEEM	Senior Ecologist, Golder Associates (UK) Ltd.
Jeff Thornton BSc(Hons) MSc	Technical Development Director for Contaminated Land, Golder Associates (UK) Ltd.
Justin Bass MSc MCILT	Associate, Intermodal Transportation Ltd

FOR THE WASTE PLANNING AUTHORITY:

James Pereira of Counsel He called	instructed by Solicitor to Essex County Council
Claire Tomalin BSc MA MRTPI	Senior Planner, Essex County Council.

FOR BRAINTREE DISTRICT COUNCIL AND VARIOUS PARISH COUNCILS (The Local Councils Group):

David Whipps, Solicitor LARTPI He called	Holmes and Hills Solicitors
Ian Gilder MA DipTP MRTPI FRSA	Head of Planning, Environmental Resources Management.
Teresa Lambert BA(Hons) DipTP MRTPI	Development Control Manager, Braintree District Council.
Melanie A'lee MIHIE	Associate, Waterman Boreham Ltd.
Tony Dunn MA(Oxon) MBA	Clerk to Bradwell Parish Council.
Mrs T Sivyver	Coggeshall Parish Council.
Robert Wright IEng MSOE MBES	Rivenhall Parish Council.
Alan Waive	Silver End Parish Council.
James Abbott BSc (Hons)	Braintree District Councillor and Rivenhall Parish Councillor.

FOR THE COMMUNITY GROUP:

John Dagg of Counsel He called	instructed by Alan Stones RIBA MRTPI MIHBC
John Palombi	Chairman of Witham & Countryside Society, Trustee

Philip Hughes	Director of CPREssex.
Barry Nee BA MA	District Councillor and Silver End Parish Councillor.
Alan Stones AADip DipTP	Resident of Kelvedon.
RIBA MRTPI MIHBC	Consultant in urban design and historic buildings conservation.

INTERESTED PERSONS:

Paul Gadd	representing Saffron Walden Friends of the Earth
David Rice	Local resident, Braintree.
Stewart Davis	Local resident, Kelvedon.
Eleanor Davis	Local resident, Kelvedon.
Paula Whitney	representing Colchester and North East Essex Friends of the Earth
Kate Ashton	Local resident, Rivenhall.
Felicity Mawson	Local resident, Witham.
Brian Saville	Local resident, Bradwall
Robert Gordon	Local resident , Silver End

DOCUMENTS

- 1 Lists of persons present at the inquiry
- 2 ECC's Letter of Notification of inquiry.
- 3 Copies of Representations received by ECC

Submitted by Applicants – Gent Fairhead & Co Ltd (GF)

GF/2/A	Proof of Evidence of Steven Smith
GF/2/B	Appendices to Proof of Evidence of Steven Smith
GF/2/C	Rebuttal Proof of Evidence of Steven Smith
GF/2/D	Appendices to Rebuttal Proof of Evidence of Steven Smith
GF/2/E	Presentation of Evidence of Steven Smith
GF/3/A	Proof of Evidence of Andrew Sierakowski
GF/3/B	Appendices to Proof of Evidence of Andrew Sierakowski
GF/4/A	Proof of Evidence of Ralph Keeble
GF/4/B	Appendices to Proof of Evidence of Ralph Keeble
GF/4/C	Rebuttal Proof of Evidence of Ralph Keeble
GF/4/D	Appendices to Rebuttal Proof of Evidence of Ralph Keeble
GF/5/A	Proof of Evidence of Christine Marsh
GF/5/B	Appendices to Proof of Evidence of Christine Marsh
GF/5/C	Rebuttal Proof of Evidence of Christine Marsh
GF/5/D	Appendices to Rebuttal Proof of Evidence of Christine Marsh
GF/6/A	Proof of Evidence of Dr Amanda Gair
GF/6/B	Appendices to Proof of Evidence of Dr Amanda Gair

GF/6/C	Rebuttal Proof of Evidence of Dr Amanda Gair
GF/6/D	Response to Friends of the Earth – Air Quality
GF/7/A	Proof of Evidence of David Hall
GF/7/B	Appendices to Proof of Evidence of David Hall
GF/7/C	Supplemental Proof of Evidence of David Hall
GF/7/D	Appendices to Supplemental Proof of Evidence of David Hall
GF/7/E	Rebuttal Proof of Evidence of David Hall
GF/7/F	Appendices to Rebuttal Proof of Evidence of David Hall
GF/8/A	Proof of Evidence of Dr Ian James Fairclough
GF/8/B	Appendices to Proof of Evidence of Dr Ian James Fairclough
GF/8/C	Rebuttal Proof of Evidence of Dr Ian James Fairclough
GF/8/D	Appendices to Rebuttal Proof of Evidence of Dr Ian James Fairclough
GF/9/A	Proof of evidence of Jeff Thornton
GF/9/B	Appendices to Proof of Evidence of Jeff Thornton
GF/9/C	Supplemental Proof of Evidence of Jeff Thornton
GF/9/D	Appendices to Supplemental Proof of Evidence of Jeff Thornton
GF/9/E	Response to Friends of the Earth – HHRA
GF/10/A	Proof of Evidence of Justin Bass
GF/10/B	Appendices to Proof of Evidence of Justin Bass
GF/10/C	Rebuttal Proof of Evidence of Justin Bass
GF/10/D	Appendices to Rebuttal Proof of Evidence of Justin Bass
GF/10/E	Email from the Highways Agency dated 9 June 2009
GF/10/F	Letter from the Highways Agency dated 8 October 2009
GF/11	Revised Non-Technical Summary
GF/12	Addendum Environmental Statement
GF/13	Application Drawings
GF/13-R1	Revised Application Drawings (to replace GF/13)
GF/14	Erratum to GF/5/B/13 (Appendix 13 to Proof of Evidence of Christine Marsh)
GF/15	Erratum to GF/2/A and GF/2/B (Evidence of Steven Smith)
GF/15/A	Further Erratum to GF/2/A (Evidence of Steve Smith)
GF/16	Erratum to Chapter 2 of GF/12 (the Air Quality Chapter of the ES Addendum)
GF/17	Agreed note on the WRATE Modelling
GF/18	Proposed Site Itinerary
GF/19	Applicant List of Appearances
GF/20/A	List of Inquiry Documents – Day 1 (Tuesday 29 September 2009)

GF/20/B	List of Inquiry Documents – Day 2 (Wednesday 30 September 2009)
GF/20/C	List of Inquiry Documents – Day 5 (Tuesday 6 th October 2009)
GF/20/D	List of Inquiry Documents – Day 5 (Tuesday 6 th October 2009)
GF/20/E	List of Inquiry Documents – Day 8 (Friday 9 th October 2009)
GF/20/F	List of Inquiry Documents – Day 10 (Wednesday 14 th October 2009)
GF/21	Opening Submissions on behalf of the Applicant
GF/22	Erratum to GF/6/B/10 (Appendix 10 to the Proof of Evidence of Amanda Gair)
GF/23	Erratum to GF/5/A (Proof of Evidence of Christine Marsh)
GF/24	Summary Data to Support Evidence of Ralph Keeble
GF/25/A	Indicative Inquiry Programme (Day 2)
GF/25/B	Indicative Inquiry Programme (Day 2)
GF/25/C	Indicative Inquiry Programme (Day 3)
GF/25/D	Indicative Inquiry Programme (Day 5)
GF/25/E	Indicative Inquiry Programme (Day 6)
GF/25/F	Indicative Inquiry Programme (Day 6)
GF/25/G	Indicative Inquiry Programme (Day 8)
GF/25/H	Indicative Inquiry Programme (Day 9)
GF/26	Letter from Shanks to Ralph Keeble dated 21 September 2009
GF/27	Note of WRATE Modelling – Agreed Between David Hall and Ian Gilder
GF/28	Email from the Environment Agency in Respect of the Environmental Permit Application
GF/29	Negotiation of the RCF Section 106 Agreement
GF/30	Supplementary Note to Ralph Keeble's Evidence
GF/31	Supplementary Note on Tissue Mill Feedstock – by Ralph Keeble
GF/32	Note on Heritage Significance of Rivenhall Airfield
GF/33	Supplementary Note of EERA Review Consultation – by Ralph Keeble
GF/34	Supplementary Information - prepared by Amanda Gair
GF/35	Note on Tranquillity Mapping
GF/36	Erratum to CD/2/6 (Appendix 1 to the Ecological Impact Assessment Chapter)
GF/37	Note addressing question raised by Friends of the Earth regarding the "R1 Formula" (i.e. whether the eRCF would be categorised as "recovery" or "disposal" pursuant to Directive 2008/98/EC)
GF/38	Flexibility of the eRCF
GF/39	Directions to Frog Island WMF for site visit on Friday 16 October (Meeting there at 10.30am)
GF/40	Note addressing letter to the Inquiry from Glendale Power dated 8 October 2009 (CD/15/5/B)
GF/41	eRCF Preliminary Lighting Schedule
GF/42	eRCF Maintenance Note

GF/43	Explanation of changes to application drawings
GF/44	Closing submissions
GF/45	Drawing showing calculation of eRCF building area(in response to CD1/13/2 – Local Council's response to SoCG)

Submitted by Essex County Council (ECC)

ECC/1	Statement of Case
ECC/2	Proof of Evidence of Claire Tomalin
ECC/3	Summary Proof of Evidence of Claire Tomalin
ECC/4	Opening Submissions on behalf of ECC
ECC/5	Email from ERM to Lesley Stenhouse at ECC and Response
ECC/6	Supplementary Note of EERA Review Consultation – prepared by Claire Tomalin
ECC/7	Proposed Conditions (with comments where condition not agreed between ECC and the Applicant)
ECC/8	Revised version of ECC/7 with changes marked to show additional comments following Inquiry session on 13 October 2009
ECC/9	Closing submissions

Submitted by Local Council's Group (LC)

LC/1/A	Proof of Evidence of Ian Gilder
LC/1/B	Appendices to Proof of Evidence of Ian Gilder
LC/1/C	Supplementary Proof of Evidence of Ian Gilder
LC/1/D	Rebuttal Proof of Evidence of Ian Gilder
LC/1/E	Note on ERM 2009 Report (CD/10/4)
LC/2/A	Proof of Evidence of Teresa Mary Lambert
LC/2/B	Appendices to Proof of Evidence of Teresa Mary Lambert
LC/3/A	Proof of Evidence of Melanie A'Lee
LC/3/B	Appendices to Proof of Evidence of Melanie A'Lee
LC/4/A	Proof of Evidence of Tony Dunn
LC/4/B	Appendices to Proof of Evidence of Tony Dunn
LC/5/A	Proof of Evidence of Michael Horne
LC/6/A	Proof of Evidence of Robert Wright
LC/7/A	Proof of Evidence of Alan Waive
LC/8/A	Proof of Evidence of James Abbott
LC/8/B	Appendices to Proof of Evidence of James Abbott
LC/9	List of Appearances for the Local Councils
LC/10	Opening Submissions on behalf of the Local Councils
LC/11/A	Plan showing Parish boundaries

LC/11/B	Plan showing certain referenced roundabouts
LC/11/C	Plan showing certain referenced local roads
LC/12	Closing submissions
LC13-14	These have been numbered as CD/16/3-4

Submitted by Community Group (CG)

CG/1/A	Proof of Evidence of John Palombi
CG/1/B	Appendices to Proof of Evidence of John Palombi
CG/2/A	Proof of Evidence of Philip Hughes
CG/2/B	Appendices to Proof of Evidence of Philip Hughes
CG/3/A	Proof of Evidence of Barry Nee
CG/4/A	Proof of Evidence of Alan Stones
CG/4/B	Appendices to Proof of Evidence of Alan Stones
CG/5	List of Appearances and Opening Submissions on behalf of the CG
CG/6	Closing submissions

Submitted by other parties and individuals (OP)

OP/1	Submission on behalf of Saffron Walden Friends of the Earth, together extract of Environmental Report, dated February 2008, to Essex County Council by Eunomia.
OP/2	Oral statement of behalf of Saffron Walden Friends of the Earth including extract from DEFRA Stage One: Consultation on the transposition of the revised Waste Framework Directive (Directive 2008/98/EC) (July 2009)
OP/3	Submission from Stewart Davis
OP/4	Submission from Eleanor Davis
OP/5	Submission from Kate Ashton, including appendices.
OP/6	Submission by Paula Whitney, together with 7 appendices, on behalf of Colchester and North East Essex Friends of the Earth
OP/7	Submission by Felicity Mawson

CORE DOCUMENTS (referenced as: CD/[Section No]/[Ref No], e.g. the call in letter is CD/1/1)

Section No	Ref No	Document Title or Description
1		Call In Letter
1	1	Government Office for the East of England Call in Letter - 12.05.09
2		eRCF Planning Application and Associated Documents - ESS/37/08/BTE
2	1	Letter to ECC - Ref. Screening & Scoping - 22.05.08
2	2	eRCF Formal Scoping Opinion Request - 22.05.08
2	3	Letter to ECC - Ref. Planning Application & EIA - 26.08.08

2	4	Planning Application and Environmental Statement, Proposed Evolution of the Recycling & Composting Facility at Rivenhall Airfield, Volume 1 - 26.08.08
2	5	Planning Application and Environmental Statement, Proposed Evolution of the Recycling & Composting Facility at Rivenhall Airfield, Volume 2, 1 of 4 - 26.08.08
2	6	Planning Application and Environmental Statement, Proposed Evolution of the Recycling & Composting Facility at Rivenhall Airfield, Volume 2, 2 of 4 - 26.08.08
2	7	Planning Application and Environmental Statement, Proposed Evolution of the Recycling & Composting Facility at Rivenhall Airfield, Volume 2, 3 of 4 - 26.08.08
2	8	Planning Application and Environmental Statement, Proposed Evolution of the Recycling & Composting Facility at Rivenhall Airfield, Volume 2, 4 of 4 - 26.08.08
2	9	Letter to ECC - Ref. Regulation 19 - Additional Information - 09.12.08
2	10	Regulation 19 Additional Information - 09.12.08
2	11	ERM, Rivenhall Airfield – Evolution of the Recycling and Composting Facility: Review of Environmental Statement, Final Report, November 2008
2	12A	ECC Report to Committee (DR/19/09) - 24.04.09
2	12B	Addendum to ECC Report to Committee - 24.04.09
2	13	Minutes of the Development & Regulation Committee - 24.04.09
3		RCF Planning Application and Associated Documents - ESS/38/06/BTE
3	1	Planning permission dated 26 February 2009 (Ref:KA/DEVC/2848)
3	2	Minutes of the East of England Regional Planning Panel Sub-Committee of 19 January 2007
3	3	Rivenhall Airfield Recycling & Composting Facility, Volume 1 - Planning Application Supporting Statement – July 2006
3	4	Rivenhall Airfield Recycling & Composting Facility, Volume 2 - Environmental Statement, File 1 of 2- July 2006
3	5	Rivenhall Airfield Recycling & Composting Facility, Volume 2 - Environmental Statement, File 2 of 2- July 2006
3	6	Rivenhall Airfield Recycling & Composting Facility Supplementary Report, Nov 2006
3	7	Section 106 Agreement dated 26 February 2009 between Gent Fairhead & Co Ltd (1), Essex County Council (2), Barclays Bank Plc (3), Gent Fairhead Aggregates Ltd and Cemex Operations Ltd (4) and The Bradwell Estate (5)
3	8	Letter from Go-East dated 26 April 2007 in response to the referral by ECC of ESS/38/06/BTE
3	9	ECC Committee Report - ESS/38/06/BTE - 30 March 2007 (DR/015/07)
4		European Legislation and Guidance
4	1	Consolidated EC Framework Directive on Waste 2006/12/EC (previously the Waste Framework Directive 75/442/EEC (as amended))
4	2	New EC Framework Directive on Waste 2008/98/EC
4	3	EC Waste Incineration Directive 2000/76/EC
4	4	EC Landfill Directive 1999/31/EC
4	5	EC Groundwater Directive 2006/118/EC
4	6	EC Reference Document on Best Available Techniques in the Pulp and Paper Industry, 2001
4	7	EC Directive on Air Quality 2008/50/EC
4	8	The IPPC Directive (Directive 2008/01/EC)
5		Statutory Development Plan and Associated Documents
5	1	East of England Plan, The Revision to the Regional Spatial Strategy for the East of England, (May 2008)
5	2	Report to the Regional Planning Panel on the 29 June 2009 entitled 'Waste Policies for the review of the East of England Plan'
5	3	Essex and Southend Replacement Structure Plan (Adopted April 2001)

5	4	Essex and Southend Waste Local Plan (Adopted September 2001)
5	5	Braintree District Local Plan Review (Adopted July 2005)
5	6	Essex Minerals Local Plan First Review (January 1997)
5	7	Extract from the Report of the Panel, dated June 2006, Following the Examination in Public of the East of England Plan December 2004
5	8	Technical Paper on Waste for the Review of the East of England Plan – Consultation Document, August 2009
6		National Planning Policy
6	1	Planning Policy Statement (PPS) 1 – Delivering Sustainable Development
6	2	Planning and Climate Change – Supplement to PPS 1
6	3	Consultation Paper on PPS4 – Planning for Sustainable Economic Development 2007
6	4	PPS 7 – Sustainable Development in Rural Area
6	5	PPS 9 – Biodiversity and Geological Conservation
6	6	PPS 10 – Planning for Sustainable Waste Management
6	6A	Extract from the Companion Guide to PPS 10
6	7	Planning Policy Guidance (PPG) 13 – Transport
6	8	PPG 15 – Planning and the Historic Environment
6	9	PPG 16 – Archaeology and Planning
6	10	PPS 22 – Renewable Energy 2004
6	11	PPS 23 – Planning and Pollution Control
6	11A	Planning Policy Statement 23: Planning and Pollution Control Annex 1: Pollution Control, Air and Water Quality
6	12	PPG 24 – Planning and Noise
6	13	PPS 25 – Development and Flood Risk
6	14	Minerals Policy Statement (MPS) 2 – Controlling and Mitigating the Environmental Effects of Minerals Extraction in England
6	15	The Planning System: General Principles (ODPM, 24.02.2004)
6	16	PPS Planning for the Historic Environment: Historic Environment Planning Practice Guide (Living Draft – 24 July 2009)
6	17	Consultation paper on a new Planning Policy Statement 15: Planning for the Historic Environment (DCLG July 2009)
7		Circulars
7	1	Circular 11/95: Use of conditions in planning permission
7	2	Circular 05/05: Planning obligations
8		Other Law, Policy and Strategy Documentation
8	1	DEFRA Waste Strategy for England 2007 (May 2007)
8	2	Joint Municipal Waste Management Strategy for Essex (2007 to 2032)
8	3	DEFRA – Waste Infrastructure Delivery Programme Information Note on Combined Heat & Power (January 2009)
8	4	The UK Renewable Energy Strategy 2009
8	5	Essex Waste Management Partnership PFI, Outline Business Case, April 2008 (Executive Summary)
8	6	Essex Waste Management Partnership PFI, Outline Business Case, July 2009 (main body only, no appendices)
8	7	English Heritage (2006) <i>Understanding Historic Buildings: A guide to good recording practices</i>
8	8	The UK Low Carbon Transition Plan – National strategy for climate and energy
8	9	Designing waste facilities – a guide to modern design in waste (DEFRA/CABE 2008)
9		Previous Inquiry Documents and Other Planning Permissions
9	1A	Essex and Southend-on-Sea Waste Local Plan, Public Inquiry, 25 October 1999 – 5 January 2000, Report of the Inspector, July 2000

9	1B	Secretary of State's decision in respect of CD/9/1A
9	2	Planning Permission ESS/07/98/BTE: Minerals Local Plan Site R, Bradwell Sand and Gravel Pit and Rivenhall Airfield, Bradwell
9	3	ESS/15/08/BTE, Report from the Head of Environmental Planning at ECC approving variation of ESS/07/98/BTE to allow amended restoration levels.
10		Industry Reports and Assessments
10	1	Urban Mines – Detailed Assessment of East of England Waste Arisings for the East of England Regional Assembly (March 2009)
10	2	WRAP Market De-inked Pulp Feasibility Study, 2005
10	3	Waste Arisings, Capacity and Future Requirements Study Final Report (ERM, February 2007)
10	4	Updated Capacity and Need Assessment Final Report (ERM, July 2009)
11		The Council Group Documents
11	1	[NOT USED]
11	2	Braintree District Council, Committee Report – 25 November 2008
11	3	Braintree District Council, Minutes of Planning Committee Meeting – 25 November 2008
11	4	Braintree District Council, Committee Report – 20 January 2009
11	5	Braintree District Council, Minutes of Planning Committee Meeting – 20 January 2009
11	6	[NOT USED]
11	7	[NOT USED]
11	8	Braintree District Council, Cabinet Meeting, Minutes of Meeting – 11 May 2009
12		The Community Group Documents
12	1	Kelvedon Village Plan, Kelvedon Parish 2002
12	2	Bradwell Village Action Plan, Bradwell Village Action Group, 2003
12	3	The Countryside Agency, Rivenhall Village Design Statement, July 2005
13		Statement of Common Ground
13	1	Draft Statement of Common Ground agreed between Gent Fairhead & Co. Ltd and ECC, dated 26 August 2009
13	2	Draft Appendix to CD/13/1 prepared by the Councils Group
13	3	CD13/1 with slight amendments shown in track changes (incorporating CD/13/2 as Appendix 1)
13	4	Final Statement of Common Ground
14		Section 106 Agreement
14	1	Draft Section 106 Agreement agreed between Gent Fairhead & Co. Ltd and ECC, dated 26 August 2009
14	2	Note setting out changes to be made to CD/14/1 prior to engrossment of Section 106 Agreement to incorporate comments of Local Councils
14	3	Further changes to be made to CD/14/1 to incorporate comments of Local Councils
14	4	Engrossment version of S106 (being CD/14/1 incorporating changes set out in CD/14/3)
14	5	Conformed and certified copies of completed S106 agreement
15		Third Party Correspondence
15	1	File of third party correspondence received from PINS on 3 August 2009
15	2	Correspondence received from PINS up to and including 25 September 2009
15	3	Letter submitted by Mr B T Hill to Inspector at Inquiry dated 5 October 2009
15	4	Correspondence received from PINS on 8 October 2009 (comprising 3 letters and 3 emails CD/15/4/A to CD/15/4/F)
15	5	Correspondence received from PINS between 9 and 12 October 2009 (CD/15/5/A to CD/15/5/F)
15	6	Correspondence received from PINS on 13 October 2009
15	7	Letter from Environment Agency to PINS dated 13 October 2009
16		Comments on the EA response to Addendum to ES and on any other representations on the Addendum received by 14 October 2009.

- 16 1 Letter from EA dated 22 October 2009 clarifying earlier comments
- 16 2 Comments on EA letter from Community Group dated 22 October 2009
- 16 3 Comments on EA letter from Local Council's Group dated 22 October 2009
- 16 4 Comments on lighting schedules from Local Council's Group dated 22 October 2009
- 17 Final responses submitted by 29 October 2009 to evidence submitted at CD/16 above.**
- 17 1 Technical Note on Exterior Lighting, prepared by Pell Frishmann (dated 26 October 2009) on behalf of the applicants in response to representations from the LCG and CG's dated 22 October 2009.
- 17 2 Applicants response to representations made by Local Councils Group and Community Group on 22 October 2009 (CD/16 above) - Prepared by Dr Amanda Gair, 29 October 2009

Appendix A – Brief Description of the Frog Island Waste Management Facility at Rainham

- 1) I undertook an accompanied visit to the Frog Island Waste Management Facility on 16 October 2009.
- 2) The Frog Island development comprises a materials recycling facility (MRF) and a mechanical biological treatment plant (MBT). The MBT plant processes about 200,000 tpa of municipal solid waste (MSW) and C&I waste on three lines each taking about 70,000 tpa. The plant operates with a negative internal air pressure and each line has a large biological filter on the roof designed to deal with odours. The object of the site visit was to inspect the operation and efficiency of the plant with regard to the generation of dust, and odour.
- 3) The plant is situated on the edge of the River Thames and is some distance from the nearest residential properties. There were high levels of noise at the end of each line within the plant, at the point where vehicle trailers were being loaded before removing residues from the plant. However, the plant appears to be well insulated for sound because the level of noise outside the building was low and not intrusive.
- 4) The plant is fitted with fast operating roller shutter doors and these appear to work well. However, the reception area for the delivery of waste is too small. I noted that vehicles were depositing their loads whilst the roller shutter doors were open – they did not appear to have sufficient room to move fully into the building before tipping the waste. Some waste spilled outside the line of the doors as the vehicles moved forward, lowering their trailer bodies and leaving the building. This spill of waste prevented the doors from being closed fully from time to time and there was some odour from waste at the point of delivery. Nevertheless, the negative air pressure system appeared to work well, because there was no other apparent odour emanating from the plant except that at the point of delivery.
- 5) I have no doubt that this problem is due to the limited size of the delivery area, which prevents some vehicles from unloading entirely within the building. The negative air pressure also clearly assisted with dust control. There was a significant amount of dust inside the plant, particularly at the end of the MBT lines. However, this is kept within the plant and I saw no obvious signs of dust nuisance outside the building.
- 6) Finally, I inspected the biological filters on the roof. These were filled with wood bark and the only odour emanating from this part of the plant was the smell of wood bark.

Appendix B – List of Proposed Planning Conditions

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
Commencement		
1. Commencement within 5 years, 30 days prior notification of commencement.	<p>1. The development hereby permitted shall be begun before the expiration of 5 years from the date of this permission. Not less than 30 days prior notification of commencement of the development shall be given in writing to the Waste Planning Authority.</p> <p>Reason: To comply with section 91 of the Town and Country Planning Act 1990 (as amended).</p>	
Approved Plans and Details		
2. The development hereby permitted shall only be carried out in accordance with the details submitted by way of the application and subsequent submitted information.	2. The development hereby permitted shall only be carried out in accordance with drawing numbers:	ECC: Inspector to decide if any additional material to be specifically referenced.
	Title	
	1-1: Land Ownership & Proposed Site Plan	
	1-2: Proposed Planning Application Area	
	1-4: Access Road Details	
	1-5A: Typical Arrangement and Architectural Features of the eRCF	
	1-8: Schematic Arrangement of Woodhouse Farm	
	1-9: eRCF Simplified Process Flow	
	1-10: eRCF Integrated Process Flow	
	3-3: Site Plan Layout	
	3-8C: eRCF General Arrangement	
	3-12C: eRCF Detailed Cross-Sections	
	3-14A: eRCF Upper Lagoon & Wetland Shelf	
	3-16: Services Plan	
	3-19B: eRCF General Arrangement	
	8-6: Landscape Mitigation Measures	
	IT569/SK/06: Proposed Improvements to Site Access Road Junction with Church Road	
	IT569/SK/07: Proposed Improvements to Site Access Road Junction with Ash Lane	
	19-2B: Tree Survey	
	19-3B: The Constraints and Protection Plan	
	19-5: eRCF Base Plan Woodhouse Farm	
	Reason: For the sake of clarity and the avoidance of doubt	
Traffic and Access		

<p>Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009</p>	<p>Proposed conditions</p>	<p>Comments by parties</p>
<p>3. The maximum number of HGV movements a day associate with the associated waste management facility shall be no more than 404 HGV movements a day. Records shall be maintained and submitted upon request.</p>	<p>3. The total number of Heavy Goods Vehicle [HGV¹] movements associated with the excavation of materials (i.e. overburden, sand, gravel, and boulder clay) and import and/or export of materials associated with the operation of the completed IWWMF² hereby permitted shall not exceed the following limits: 404 movements 202 in and 202 out per day (Monday to Friday) 202 movements 101 in and 101 out per day (Saturdays) and shall not take place on Sundays, Public or Bank Holidays, except for clearances from Household Waste Recycling Centres between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority.</p> <p>No HGV movements shall take place outside the hours of operation authorised in Conditions 34 & 36 of this permission.</p> <p>¹An HGV shall be defined as having a gross vehicle weight of 7.5 tonnes or more.</p> <p>² IWWMF shall be defined as the buildings, structures and associated plant and equipment for the treatment of waste at the site.</p> <p>Reason: In the interests of highway safety and safeguarding local amenity and to comply with MLP policy MLP13 and WLP policies WLP W4C & W10E.</p>	
<p>3. The maximum number of HGV movements a day associate with the associated waste management facility shall be no more than 404 HGV movements a day. Records shall be maintained and submitted upon request.</p>	<p>4. The total number of Heavy Goods Vehicles [HGV¹] vehicle movements associated with the construction of the IWWMF (including deliveries of building materials) when combined with the maximum permitted vehicle movements under Condition 3 shall not exceed the following limits: 404 movements 202 in and 202 out per day (Monday to Sunday).</p> <p>No HGV movements shall take place outside the hours of operation authorised in Condition 35 of this permission.</p> <p>² IWWMF shall be defined as the buildings, structures and associated plant and equipment for the treatment of waste at the site.</p> <p>Reason: In the interests of highway safety and safeguarding local amenity and to comply with WLP Policy W10E.</p>	
<p>3. The maximum number of HGV movements a day associate with the associated waste management facility shall be no more than 404 HGV movements a day. Records shall be maintained and submitted upon request.</p>	<p>5. A written record of daily HGV movements into and out of the site shall be maintained by the operator from commencement of the development and kept for the previous 2 years and shall be supplied to the Waste Planning Authority within 14 days of a written request . The details for each vehicle shall include the identity of the vehicle operator, the type and size of the vehicle, the vehicle registration number, and an indication of whether the vehicle is empty or loaded.</p> <p>Reason: To enable the Waste Planning Authority to monitor HGV movements and in the interests of highway safety, safeguarding local amenity and to comply with MLP policy MLP13 and WLP policy W10E.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
<p>4. Details of the extended access road to be submitted including removal of lay-by on single lane section with upgrading of surface to passing bay.</p> <p>5. No construction works for the development until the access road extension and widening and all footpath crossover points have been provided.</p> <p>34. No development shall commence until the layout of the cross over points of rights of way with the haul road, both existing and proposed, have been submitted for approval.</p>	<p>6. No development shall commence until full details of the extended access road and the layout of the cross over points (both temporary and permanent) where the access road, both existing and proposed, crosses public footpaths, as shown on the Definitive Map and Statement of Public Rights of Way have been submitted to and approved in writing by the Waste Planning Authority. The extended access road and cross over points shall be implemented in accordance with the approved details.</p> <p>Reason: In the interests of pedestrian safety and safeguarding local environment and amenity and compliance with WLP policy W10E & W10G, and MLP policy MLP13.</p>	
<p>5. No construction works for the development until the access road extension and widening and all footpath crossover points have been provided.</p>	<p>7. No works on the construction of the IWMF shall commence until the access road extension and widening and all footpath crossover points have been constructed.</p> <p>Reason: In the interests of pedestrian safety and safeguarding local environment and amenity and compliance with WLP policy W10E & W10G, and MLP policy MLP13.</p>	
<p>6. All vehicles shall only enter and leave the Site using the Coggeshall Road (A120) junction.</p>	<p>8. No vehicles shall access or egress the site except via the access onto the Coggeshall Road (A120 trunk road) junction as shown on application drawing Figure 1-2.</p> <p>Reason: In the interests of pedestrian safety and safeguarding local environment and amenity and compliance with WLP policies W4C & W10E and MLP policies MLP3 & MLP13.</p>	
<p>7. No vehicles shall park within passing bays on the access road between Church Road and Ash Lane.</p>	<p>9. No vehicles shall park on the haul road between the A120 and Ash Lane.</p> <p>Reason: In the interests of safeguarding the local environment and amenity and to comply with MLP Policy MLP13 and WLP Policy W10E.</p>	
<p>Cultural Heritage</p>		
<p>8. No development until a programme for archaeological investigation.</p>	<p>10. No development or preliminary groundworks shall take place until a written scheme and programme of archaeological investigation and recording has been submitted to and approved in writing by the Waste Planning Authority. The scheme and programme of archaeological investigation and recording shall be implemented prior to the commencement of the development hereby permitted or any preliminary groundworks.</p> <p>Reason: To ensure that any archaeological interest has been adequately investigated and recorded prior to the development taking place and to comply with MLP policy MLP13 and WLP policy W10E.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
9. No demolition of airfield buildings until level 3 survey undertaken.	<p>11. No airfield buildings and/or structures shall be demolished until the Level 3 survey in accordance with the 2006 English Heritage Guidance entitled "Understanding Historic Buildings: A Guide to Good Recording Practice" of the airfield buildings and/or structures has been completed.</p> <p>Reason: To ensure that any historical interest has been adequately investigated and recorded prior to the development taking place and to comply with MLP policy MLP13 and WLP policy W10E.</p>	
10. No development affecting the moat until details of the proposed improvements and water supply submitted for approval.	<p>12. No ecological management works affecting the moat adjacent to Woodhouse Farm shall commence until details of the proposed works and proposed water supply for the moat and a timescale for its implementation have been submitted to and approved in writing by the Waste Planning Authority. The works to the moat and water supply arrangements shall be implemented in accordance with the details approved.</p> <p>Reason: To ensure protection of any historical and/or ecological interest to comply with MLP policy MLP13 and WLP policy W10E.</p>	
11. No development until details of signage, telecommunications and lighting within the vicinity of Woodhouse Farm have been submitted.	<p>13. No development shall commence until details of signage, telecommunications equipment and lighting within the Woodhouse Farm complex (comprising Woodhouse Farm house, the Bakehouse, and the listed pump together with the adjoining land outlined in green on Plan 1 (which can be found in the S106 agreement)) have been submitted to and approved in writing by the Waste Planning Authority. The signage, telecommunications equipment and lighting shall be implemented in accordance with the details approved.</p> <p>Reason: To protect the setting and appearance of the Listed Buildings and to comply with WLP policy W10E and BDLPR policy RLP100.</p>	
Design and Layout		
<p>12. No development shall commence until details of the design of the chimney including elevations, sections, plan views to appropriate scales and construction details have been submitted.</p> <p>&</p> <p>14. No development shall commence until information on effect of weathering on the proposed chimney material and how the chimney would be maintained to retain the quality of the surface have been submitted.</p>	<p>14. No development shall commence until details of the design of the stack serving the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The details to be submitted shall include:</p> <p>(a) elevations, sections and plan views to appropriate scales and construction details;</p> <p>(b) samples of the finish of the stack to provide a mirrored reflective surface; and</p> <p>(c) information on the effect of weathering on the proposed stack material or how the effect of weathering is to be assessed by, for example the location on the site of examples of proposed materials which will be exposed to the elements and details of how the stack would be maintained to retain the quality of the surface of these materials.</p> <p>The stack shall be constructed and maintained in accordance with the details approved</p> <p>Reason: To limit the impacts on local amenity and the local environment and to comply with WLP policy W10E and Adopted Braintree Local Plan Review 2005 (BDLPR) policy RLP78.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
13. No development shall commence until design details including external construction, materials, colours and finishes of the external cladding of the buildings and structures have been submitted including the provision of an artistic feature on or near the north elevation.	<p>15. No development shall commence until design details and samples of the external construction materials, colours and finishes of the external cladding of the IWMF buildings and structures, and design and operation of the vehicle entry and exit doors, have been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the details and samples approved.</p> <p>Reason: To limit the impacts on local amenity and the local environment and to comply with WLP policy W10E and BDLPR policies RLP78 & RLP90.</p>	
13. No development shall commence until design details including external construction, materials, colours and finishes of the external cladding of the buildings and structures have been submitted including the provision of an artistic feature on or near the north elevation.	16. Not used	
15. No development shall commence until management measures for the CHP plant have been submitted to ensure there is no visible plume from the chimney.	<p>17. No development shall commence until a management plan for the CHP plant to ensure there is no visible plume from the stack has been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the approved plan.</p> <p>Reason: To limit the impacts on local amenity and the local environment and to comply with WLP policy W10E and BDLPR policy RLP78.</p>	
16. No development shall commence until details of the green roofs have been submitted.	<p>18. No construction of the IWMF shall commence until details of the green roofs proposed for the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The green roofs shall be implemented in accordance with the details approved.</p> <p>Reason: To limit the impacts on local amenity and the local environment and to ensure enhancement of biodiversity and to comply with WLP policy W10E and BDLPR policies, RLP78 & RLP90.</p>	
17. No development shall take place until details of the layout of the waste management facility have been submitted.	<p>19. No works to install process equipment or plant within the IWMF shall commence until details of the IWMF process layout and configuration have been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the approved details.</p> <p>Reason: To ensure control of the development and in the interests of local amenity with respect to control of noise, dust, odour and light and to comply with WLP policy W10E.</p>	
<p>18. No beneficial use of the waste management facility until details for parking of cars, HGVs and any other vehicles that may use the waste management facility.</p> <p>&</p> <p>49. No redundant plant or machinery, containers, skips, trailers or vehicles shall be parked other than within designated areas.</p>	<p>20. No development shall commence until details of the construction compounds and parking of all vehicles and plant and equipment associated with the extraction of materials and the construction of the IWMF have been submitted to and approved in writing with the Waste Planning Authority. The details shall include location, means of enclosure and surfacing. The compounds and parking shall be implemented in accordance with the approved details.</p> <p>Reason: To limit the impacts on local amenity and the local environment and to comply with WLP policy W10E and BDLPR policy RLP78.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
18. No beneficial use of the waste management facility until details for parking of cars, HGVs and any other vehicles that may use the waste management facility.	<p>21. No beneficial occupation of the IWMF shall commence until details of the provision to be made for and the marking out of parking spaces for cars, HGVs and any other vehicles that may use the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The parking provision and marking out shall be implemented in accordance with the approved details. The parking areas shall be retained and maintained permanently for manoeuvring and parking. No HGVs shall park in the parking area adjacent to Woodhouse Farm complex except in relation to deliveries for the uses at Woodhouse Farm complex.</p> <p>Reason: To limit the impacts on local amenity and the local environment and to comply with WLP policy W10E and BDLPR policy RLP78 and RLP100.</p>	
Water Resources		
19. No development shall take place until a detailed scheme for foul water has been submitted and approved.	<p>22. No development shall commence until a detailed scheme for foul water management, including details of the design and operation of the foul water system for the IWMF and Woodhouse Farm complex has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall be implemented in accordance with the details approved prior to the commencement of operation of the IWMF.</p> <p>Reason: To minimise the risk of pollution of water courses, aquifers and minimise the risk of flooding to comply with WLP policy W4B & W10E and BDLPR policy RLP 100.</p>	
20. No development shall take place until a detailed scheme of the surface water drainage and the ground water management system, including details of water flows between Upper lagoon and New Field lagoon.	<p>23. No development shall commence until a detailed scheme for surface water drainage and ground water management, including details of water flows between the Upper Lagoon and the New Field Lagoon has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall be implemented in accordance with the approved details.</p> <p>Reason: To minimise the risk of pollution of water courses, aquifers and minimise the risk of flooding to comply with MLP policy MLP13 and WLP policies W4B & W10E.</p>	
21. No excavation shall take place until a scheme identifying locations for the installation of boreholes to monitor groundwater has been submitted.	<p>24. No excavation shall commence until a scheme of ground water monitoring for the site has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall identify the locations for the installation of boreholes to monitor groundwater and the frequency of monitoring. The scheme shall be implemented in accordance with the details approved prior to the commencement of excavations on the site.</p> <p>Reason: To minimise the risk of pollution of water courses, aquifers and minimise the risk of flooding to comply with MLP policy MLP13 and WLP policies W4B & W10E.</p>	
22. In the event that contamination is found the developer shall submit details of mitigation and remediation for approval.	<p>25. No development shall commence until an investigation to identify whether the site is contaminated has been carried out and details of the findings including any land remediation and mitigation measures necessary should contamination be identified. The development shall be implemented in accordance with the approved details including any remediation and mitigation identified.</p> <p>Reason: To minimise the risk of pollution of water courses, aquifers and to comply with MLP policy MLP13 and WLP policies W4B & W10E and BDLPR policy RLP64.</p>	
Waste Management		

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
23. No element of the development may be implemented in isolation of others.	<p>26. The market de-inked paper pulp plant shall only source its heat steam and energy from the IWWMF with the exception of periods of start-up and maintenance and repair of the IWWMF.</p> <p>Reason: To ensure the development is operated as an integrated waste management facility as proposed, maximising the benefits of the co-location of the different elements and to comply with RSS policies WM1 & WM3 and WLP policies W4C, W8A & W7G.</p>	
24. No waste shall be brought onto the Site for processing in the MRF, AD, MBT and CHP plant (except waste paper and card) other than that arising from within the administrative area of Essex and Southend-on-Sea. Submission of monitoring data.	<p>27. No waste, except pre-sorted waste paper and card and Solid Recovered Fuel, shall be brought on to the site other than that arising from within the administrative area of Essex and Southend-on-Sea. Records indicating the origin of all waste consignments and tonnages brought to the site shall be kept and made available for inspection by the Waste Planning Authority for at least 2 years after receipt of the waste. The records shall be made available to the Waste Planning Authority within 14 days of a written request.</p> <p>Reason: To ensure the development is operated as an integrated waste management facility as proposed, maximising the benefits of the co-location of the different elements and to comply with RSS policies WM1 & WM3 and WLP policies W4C, W8A & W7G.</p>	
	<p>28. (i) SRF shall be sourced internally from the IWWMF or within the administrative boundaries of Essex and Southend-on-Sea.</p> <p>(ii) If the Waste Planning Authority is satisfied that the operator has used its reasonable endeavours to source SRF from these sources and there remains capacity within the IWWMF, then SRF arising from elsewhere within the East of England may be used up to the available capacity for a period up to three years from the date of the agreement of the Waste Planning Authority.</p> <p>(iii) No development shall commence until a scheme giving effect to the requirement of clause (i) above of this condition is submitted to and approved in writing by the Waste Planning Authority. The approved scheme shall be implemented as approved.</p> <p>Reason: In the interests of the environment by assisting Essex and Southend-on-Sea to become self-sufficient for managing its own waste ensuring that the waste is transported proximate to the site thereby minimising transportation distances, reducing pollution and amenity and to comply with RSS policies WM1, WM3, WM4 & WM5 and WLP policies W3A, W3C, W6A, W7A, W7B, W7C and W10E.</p>	<p>GFC: Five years appropriate</p> <p>ECC: One year appropriate</p>
25. No wastes other than dry non-hazardous Municipal Solid Waste and Commercial & Industrial wastes shall be brought onto the Site for processing, treatment or disposal.	<p>29. No waste other than those waste materials defined in the application shall enter the site for processing or treatment in the IWWMF plant. No more than 853,000tpa of Municipal Solid Waste and/or Commercial and Industrial Waste shall be imported to the site.</p> <p>Reason: Waste material of a greater quantity would raise additional environmental concerns, which would need to be considered afresh and to comply with RSS policies SS1, WM1, WM2, WM3 & WM4 and WLP policies W3A, W3C, W8A, & W10E.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
<p>26. No more than 435,000 tpa of waste (MSW and/or C&I) as MOW, MDR or unsorted waste, shall be imported to the Site, except C&I waste in the form of paper and card. No more than 331,000 tpa of paper and card shall be brought to the Site. No more than 87,500 tpa of SRF shall be imported to the Site. Records shall be kept and provided upon request.</p>	<p><i>[NO CONDITION REQUIRED - MERGED WITH PREVIOUS CONDITION]</i></p>	
<p>27. No more than 20% of the imported waste paper and card shall be from sources outside the East of England Region. Records shall be kept and provided upon request.</p>	<p>30. (i) No more than 50% of the imported waste paper and card (based on a nominal imported tonnage of pre-sorted waste paper and card of 360,000 tpa) shall be sourced from outside the administrative boundaries of the East of England Region.</p> <p>(ii) If the Waste Planning Authority is satisfied that the operator has used its reasonable endeavours to source 50% of the imported pre-sorted waste paper and card from within the East of England region, then the imported pre-sorted waste paper and card may be sourced from outside the East of England Region for a period of up to 5 years from the date of written agreement of the Waste Planning Authority.</p> <p>(iii) No development shall commence until a scheme giving effect to the requirement of clause (i) above of this condition is submitted to and approved in writing by the Waste Planning Authority. The approved scheme shall be implemented as approved.</p> <p>Reason: In the interests of the environment by assisting the East of England Region to become self-sufficient for managing its own waste ensuring that the waste is transported proximate to the site thereby minimising transportation distances, reducing pollution and minimising the impact upon the local environment and amenity and to comply with RSS policies WM1, WM3 & WM4, WLP policies W3A, W3C, W8A, W10E, the London Plan (February 2008) policies 4A.21 and 4A.22, the South East Plan (may 2009) policies W3, W4, W10 and W17.</p>	<p>GFC do not agree to proposed condition. Applicant would prefer one of the following, in order of preference:</p> <p>No Condition</p> <p>OR</p> <p>Waste paper and card imported to the site shall be sourced from within a 150km radius of the development site by road. Records of the source of waste imported to the site shall be kept for 2 years and shall be submitted to the Waste Planning Authority within 14 days of a written request.</p> <p>OR</p> <p>Waste paper and card to be imported to the site shall only be sourced from the East of England Region, London and the South East Region. Records of the source of waste imported to the site shall be kept for 2 years and shall be submitted to the Waste Planning Authority within 14 days of a written request.</p> <p>Reason: To comply with RSS policy WM3.</p>

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
28. No waste brought onto the Site shall be discharged, deposited, handled, stored, composted or otherwise processed outside the buildings.	<p>31. No waste brought onto the site shall be deposited, handled, stored, composted or otherwise processed outside the IWWMF buildings and structures.</p> <p>Reason: To ensure minimum disturbance from operations and to avoid nuisance to local amenity and compliance with WLP policy W10E and BDLPR policy RLP62.</p>	
29. No waste materials other than those arriving in enclosed containers, and enclosed or sheeted vehicles shall be accepted for processing.	<p>32. All waste materials shall be imported and exported from the site in enclosed, containerised or sheeted vehicles.</p> <p>Reason: To ensure controlled waste operations and the containment of waste materials in compliance with WLP policy W10E and BDLPR policy RLP62.</p>	
30. No vehicles shall leave the waste management facility site without first having been cleansed of all loose residual mineral or waste materials from the vehicle's body and chassis.	<p>33. No vehicle shall leave the IWWMF site without first having been cleansed of all loose residual mineral or waste materials from the vehicle's body and chassis.</p> <p>Reason: In the interests of limiting the effects on local amenity and highway safety, to control the impacts of the development and compliance with WLP policy W10E and BDLPR policy RLP62</p>	
Hours of Working		
31. No removal of soils or excavation of overburden, boulder clay, sand and gravel shall be carried out other than between 07:00-18:30 hours Monday to Friday, and 07:00 - 13:00 hours Saturdays and not on Sundays, Bank and Public Holidays except for occasional maintenance of machinery, unless otherwise approved in writing by the Waste Planning Authority.	<p>34. No removal of soils or excavation of overburden, boulder clay, sand and gravel shall be carried out other than between the following hours:</p> <p>07:00-18:30 hours Monday to Friday, and 07:00 -13:00 hours Saturdays</p> <p>and shall not take place on Sundays, Bank and Public Holidays</p> <p>except for water pumping, environmental monitoring and occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.</p> <p>Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and compliance with MLP policy MLP13, WLP policies W10E & W10F and BDLPR policy RLP62.</p>	Consistent with the hours of the adjacent Bradwell Quarry.
32. The construction works (including deliveries of building materials) for the waste management facility, hereby permitted shall only be carried out between 07:00 - 19:00 hours Monday to Sunday and not on Bank and Public Holidays except for occasional maintenance of machinery, unless otherwise approved in writing by the Waste Planning Authority.	<p>35. The construction works (including deliveries of building materials) for the development hereby permitted shall only be carried out between 07:00-19:00 hours Monday to Sunday and not on Bank and Public Holidays except for occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.</p> <p>Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and compliance with WLP policies W10E & W10F and BDLPR policy RLP62.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties																										
<p>33. No waste or processed materials shall be delivered to or removed from any part of the waste management facility other than between 07:00 and 18:30 hours Monday to Friday and 07:00 and 13:00 hours on Saturdays, and not on Sundays, Public or Bank Holidays except for clearances from Household Waste Recycling Centres on Sundays and Bank and Public Holidays as required and then only between 10:00 and 16:00 hours.</p>	<p>36. No waste or processed materials shall be imported or exported from any part of the IWMF other than between the following hours</p> <p>07:00 and 18:30 hours Monday to Friday and</p> <p>07:00 and 13:00 hours on Saturdays, and not on Sundays, Public or Bank Holidays</p> <p>except for clearances from Household Waste Recycling Centres on Sundays and Bank and Public Holidays between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority.</p> <p>Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and compliance with WLP policies W10E & W10F and BDLPR policy RLP62.</p>																											
<p>Footpaths</p>																												
<p>35. No development shall take place until signs have been erected on both sides of the haul/access road where footpaths cross the haul road</p>	<p>37. No development shall commence until visible, legible and durable British Standard signs have been erected on both sides of the access road at the point where footpaths as shown on the Definitive Map, cross the access road to warn pedestrians and vehicles of the intersection. The signs shall read: 'CAUTION: PEDESTRIANS CROSSING' and 'CAUTION: VEHICLES CROSSING' and shall be maintained for the duration of the development.</p> <p>Reason: In the interest of the safety of all users of both the Right of Way and the haul road and to comply with MLP policy MLP13 and WLP policy W10G.</p>																											
<p>Noise</p>																												
<p>36. Except for temporary operations, between the hours of 07:00 and 19:00 the free field Equivalent Continuous Noise Level (L_{Aeq 1 hour}) at noise sensitive properties adjoining the Site, due to operations in the Site, shall not exceed the L_{Aeq 1 hour} levels set out in the following table:</p>	<p>38. Except for temporary operations, as defined in Condition 42, between the hours of 07:00 and 19:00 the free field Equivalent Continuous Noise Level (L_{Aeq 1 hour}) at noise sensitive properties adjoining the Site, due to operations in the Site, shall not exceed the L_{Aeq 1 hour} levels set out in the following table:</p> <table border="1" data-bbox="555 1285 884 1957"> <thead> <tr> <th>Noise Sensitive Properties</th> <th>Location Criterion dB L A eq 1 hour</th> </tr> </thead> <tbody> <tr> <td>Herring's Farm</td> <td>45</td> </tr> <tr> <td>Deeks Cottage</td> <td>45</td> </tr> <tr> <td>Haywards</td> <td>45</td> </tr> <tr> <td>Allshot's Farm</td> <td>47</td> </tr> <tr> <td>The Lodge</td> <td>49</td> </tr> <tr> <td>Sheepcotes Farm</td> <td>45</td> </tr> <tr> <td>Greenpastures Bungalow</td> <td>45</td> </tr> <tr> <td>Goslings Cottage</td> <td>47</td> </tr> <tr> <td>Goslings Farm</td> <td>47</td> </tr> <tr> <td>Goslings Barn</td> <td>47</td> </tr> <tr> <td>Bumby Hall</td> <td>45</td> </tr> <tr> <td>Parkgate Farm Cottages</td> <td>45</td> </tr> </tbody> </table>	Noise Sensitive Properties	Location Criterion dB L A eq 1 hour	Herring's Farm	45	Deeks Cottage	45	Haywards	45	Allshot's Farm	47	The Lodge	49	Sheepcotes Farm	45	Greenpastures Bungalow	45	Goslings Cottage	47	Goslings Farm	47	Goslings Barn	47	Bumby Hall	45	Parkgate Farm Cottages	45	
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Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
	<p>Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.</p> <p>Reason: In the interests of residential and local amenity and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP62.</p>	
<p>37. The free field Equivalent Continuous Noise Level ($L_{Aeq\ 1\ hour}$) shall not exceed 47 dB(A) $L_{Aeq\ 1\ hour}$ between the hours of 19:00 and 23:00, as measured or predicted at noise sensitive properties adjoining the Site.</p>	<p>39. The free field Equivalent Continuous Noise Level ($L_{Aeq\ 1\ hour}$) shall not exceed 42 dB(A) $L_{Aeq\ 1\ hour}$ between the hours of 19:00 and 23:00, as measured or predicted at noise sensitive properties, listed in Condition 38, adjoining the site. Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.</p> <p>Reason: In the interests of residential and local amenity and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP62.</p>	
<p>38. The free field Equivalent Continuous Noise Level ($L_{Aeq\ 1\ hour}$) shall not exceed 40 dB(A) $L_{Aeq\ 1\ hour}$ between the hours of 23:00 and 07:00, as measured and/or predicted at 1 m from the façade of the bedroom at noise sensitive properties adjoining the Site.</p>	<p>40. The free field Equivalent Continuous Noise Level ($L_{Aeq\ 1\ hour}$) shall not exceed 40 dB(A) $L_{Aeq\ 5min}$ between the hours of 23:00 and 07:00, as measured and/or predicted at 1 metre from the façade facing the site at noise sensitive properties, listed in Condition 38, adjoining the site.</p> <p>Reason: In the interests of residential and local amenity and to comply with WLP policy W10E and BDLPR policy RLP62.</p>	
<p>39. Noise levels shall be monitored at three monthly intervals at up to five locations as agreed with the Mineral/Waste Planning Authority.</p>	<p>41. Noise levels shall be monitored at three monthly intervals at up to five of the locations, listed in Condition 38, as agreed with the Waste Planning Authority. The results of the monitoring shall include the LA90 and L_{Aeq} noise levels, the prevailing weather conditions, details of the measurement equipment used and its calibration and comments on the sources of noise which control the noise climate. The survey shall be for four separate 15 minute periods two during the working day 0700 and 1830 and two during the evening/night time, 18:30 to 07:00 hours, the results shall be kept by the operating company during the life of the permitted operations and a copy shall be supplied to the Waste Planning Authority. After the first year of operation of the IWMP, the frequency of the monitoring may be modified by agreement with the Waste Planning Authority.</p> <p>Reason: In the interests of amenity and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP62.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
<p>40. For temporary operations, the free field noise level at sensitive properties shall not exceed 70 dB a L_{Aeq} 1 hour at noise sensitive properties adjoining the Site, due to operations on the Site. Temporary operations shall not exceed a total of eight weeks in any continuous 12 month period for work affecting any noise sensitive property.</p>	<p>42. For temporary operations at the site in relation to the excavation of materials, the free field noise level at sensitive properties, listed in Condition 38, adjoining the site shall not exceed 70dB LAeq 1 hour, due to operations on the site. Temporary operations shall not exceed a total of eight weeks in any continuous 12 month period for work affecting any noise sensitive property. Not less than 5 days written notice shall be given to the Waste Planning Authority in advance of the commencement of any temporary operation. Temporary operations shall include site preparation, bund formation and removal, site stripping and restoration, and other temporary activity as may be agreed, in advance of works taking place, with the Waste Planning Authority.</p> <p>In the interests of residential and local amenity and to comply with MLP policy MLP13.</p>	
<p>Lighting</p>		
<p>41. No external lighting shall be installed on-site except in accordance with details to be submitted to and approved. The lighting shall not exceed 5 lux maintained average luminance.</p>	<p>43. No lighting for use during excavation of materials or construction of the IWMF within the site shall be erected or installed until details of the location, height, design, sensors and luminance have been submitted to and approved in writing by the Waste Planning Authority. The lighting details shall be such that no lighting shall exceed 5 lux maintained average luminance. The lighting details with respect to excavation of materials shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. The lighting details with respect to construction of the IWMF shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1900 Monday to Sunday and at no time on, Bank or Public Holidays except for security and safety lighting activated by sensors. The details shall ensure the lighting is designed to minimise the potential nuisance of light spillage from the boundaries of the site. The lighting shall thereafter be erected, installed and operated in accordance with the approved details.</p> <p>Reason: In the interests of local amenity and fauna and to comply with WLP policy W10E and BDLPR policies RLP 65 & RLP90.</p>	
<p>41. No external lighting shall be installed on-site except in accordance with details to be submitted to and approved. The lighting shall not exceed 5 lux maintained average luminance.</p>	<p>44. No lighting for use during operation of the IWMF within the site shall be erected or installed until details of the location, height, design, sensors, times and luminance have been submitted to and approved in writing by the Waste Planning Authority. The lighting details shall be such that no lighting shall exceed 5 lux maintained average luminance. The lighting details shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. The details shall ensure the lighting is designed to minimise the potential nuisance of light spillage from the boundaries of the site. The lighting shall thereafter be erected, installed and operated in accordance with the approved details.</p> <p>Reason: In the interests of local amenity and fauna and to comply with WLP policy W10E and BDLPR policies RLP 65 & RLP90.</p>	
<p>Operations</p>		

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
42. No development shall commence until a detailing phasing scheme for the construction of the haul road, creation of the retaining wall and extraction of the minerals has been submitted for approval.	<p>45. No development shall commence until a detailed phasing scheme for the construction of the access road creation of the retaining wall around the site of the IWMF and extraction of the minerals from the site has been submitted to and approved in writing by the Waste Planning Authority. The development shall be carried out in accordance with the approved phasing scheme.</p> <p>Reason: To ensure control of the development and minimise the impact of the development on local amenity and the environment and to comply with MLP policy MLP13 and WLP policy W10E.</p>	
43. No development shall commence until details of soil handling, soil storage and machine movements and the end use of soils have been submitted for approval.	<p>46. No development shall commence until details of soil handling, soil storage and machine movements and the end use of soils have been submitted to and approved in writing by the Waste Planning Authority. The development shall be carried out in accordance with the details approved.</p> <p>Reason: To minimise soil compaction and structural damage of the soil and to protect the soil resource and to comply with MLP policy MLP13 and WLP W10E.</p>	
43. No development shall commence until details of soil handling, soil storage and machine movements and the end use of soils have been submitted for approval.	<p>47. Unless otherwise agreed in writing by the Waste Planning Authority, no topsoil, subsoil and/or soil making material shall be stripped or handled unless it is in a dry and friable condition³ and no movement of soils shall take place:</p> <p>(a) During the months November to March (inclusive);</p> <p>(b) When the upper 50 mm of soil has a moisture content which is equal to or greater than that at which the soil becomes plastic, tested in accordance with the 'Worm Test' as set out in BS 1377:1977 – 'British Standards Methods Test for Soils for Civil Engineering Purposes'; or</p> <p>(c) When there are pools of water on the soil surface.</p> <p>³ The criteria for determining whether soils are dry and friable involves an assessment based on the soil's wetness and lower plastic limit. This assessment shall be made by attempting to roll a ball of soil into a thread on the surface of a clean glazed tile using light pressure from the flat of the hand. If a thread of 15cm in length and less than 3mm in diameter can be formed, soil moving should not take place until the soil has dried out. If the soil crumbles before a thread of the aforementioned dimensions can be made, then the soil is dry enough to be moved.</p> <p>Reason: To minimise the structural damage and compaction of the soil and to comply with MLP policy MLP13 and WLP policy W10E.</p>	
44. No processing other than dry screening of excavated sand and gravel shall take place within the Application Site.	<p>48. No minerals processing other than dry screening of excavated sand and gravel or in the reformation of levels using Boulder or London Clays shall take place within the site.</p> <p>Reason: To ensure that there are no adverse impacts on the local amenity from development not already assessed in the application details and to comply with MLP policy MLP10, MLP11, & MLP13.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
45. Any fuel, lubricant or chemical storage above ground and refuelling facilities shall be sited on an impermeable base and surrounded and bunded.	<p>49. Any fuel, lubricant or/and chemical storage vessel whether temporary or not shall be placed or installed within an impermeable container with a sealed sump and capable of holding at least 110% of the vessel's capacity. All fill, draw and overflow pipes shall be properly housed within the bunded area to avoid spillage. The storage vessel, impermeable container and pipes shall be maintained for the duration of the development.</p> <p>Reason: To minimise the risk of pollution to water courses and aquifers to comply with MLP policy MLP13 and WLP policies W4B & W10E.</p>	
46. Prior to commencement details of any permanent site perimeter fencing shall be submitted for approval.	<p>50. Prior to the commencement of development details of any temporary or permanent site perimeter fencing shall be submitted to and approved in writing by the Waste Planning Authority. The fencing shall be erected in accordance with the details approved.</p> <p>Reason: In the interest of the amenity of the local area and to comply with MLP policy MLP13, WLP policy W10E and BDLPR 78.</p>	
47. No development shall take place until details of external equipment required to control any fugitive dust from the handling/storage/processing of waste have been.	<p>51. (a) No development shall take place until a scheme and programme of measures for the suppression of dust, have been submitted to and approved in writing by the Waste Planning Authority. The scheme shall include the suppression of dust caused by the moving, processing and storage of soil, overburden, stone and other materials within the site during excavation of materials and construction of the IWMF</p> <p>(b) No beneficial occupation of the IWMF shall commence until a scheme and programme of measures for the suppression of dust, have been submitted to and approved in writing by the Waste Planning Authority. The scheme shall include:</p> <p>(i) ; The suppression of dust caused by handling, storage and processing of waste; and</p> <p>(ii) Dust suppression on haul roads, including speed limits;</p> <p>In relation each scheme provision for monitoring and review.</p> <p>The development shall be implemented in accordance with the approved schemes and programme for the duration of the development hereby permitted.</p> <p>Reason: To reduce the impacts of dust disturbance from the site on the local environment and to comply with MLP Policy MLP13 and WLP policy W10E.</p>	
48. Prior to the importation of waste details of external equipment required to prevent fugitive odour nuisance shall be submitted.	<p>52. (a) No development shall commence until details of measures to control any fugitive odour from the excavation of materials and construction of the IWMF have been submitted to and approved in writing by the Waste Planning Authority the measures shall be implemented as approved.</p> <p>(b) No beneficial occupation of the IWMF shall commence until details of equipment required to control any fugitive odour from the handling/storage/processing of waste have been submitted to and approved in writing by the Waste Planning Authority. The details shall be implemented as approved.</p> <p>Reason: In the interest of local amenity and to comply with MLP policy MLP13 and WLP policy W10E.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
Ecology		
52.If the development hereby approved is not commenced within one year of the date of this consent a further wildlife survey of the Site shall be carried out to update the information on the species and the impact of development and the report of survey together with an amended mitigation strategy as appropriate shall be submitted for approval.	<p>53. Prior to the commencement of development a further ecological survey of the Site shall be carried out to update the information contained within the Environmental Statement and the impact of the development assessed and if required mitigation measures as set out within the Environmental Statement updated and amended to mitigate any impacts. Prior to the commencement of development the ecological survey assessment of impact and any updated and amended mitigation shall be submitted to and approved in writing by the Waste Planning Authority. Any updated or amended mitigation shall be carried out in accordance with the approved details.</p> <p>Reason: To make appropriate provision for the management of natural habitat within the approved development in the interests of biodiversity and in accordance with RSS policies ENV1 & ENV 2, MLP policy MLP13, WLP policy W10E and BDLPR policy RLP84.</p>	
50. No Development shall commence until a ecological management plan has been submitted to include management and mitigation measures with respect to GCNs, Bats, Badgers, protected bird species and other ecologically sensitive habitats and species and for proposed new habitats before and during construction and during operation of the development.	<p>54. No development shall commence until a habitat management plan including details of the proposed management and mitigation measures described in the Environmental Statement (amended) has been submitted to and approved in writing by the Waste Planning Authority. The plan shall include:</p> <ul style="list-style-type: none"> (i) Description and evaluation of the features to be managed; (ii) Ecological trends and constraints on site that may influence management; (iii) Aims and objectives of management; (iv) Appropriate management options for achieving aims and objectives; (v) Prescriptions for management actions; (vi) Preparation of a work schedule (including a 5 yr project register, an annual work plan and the means by which the plan will be rolled forward annually); (vii) Personnel responsible for implementation of the plan; and (viii) Monitoring and remedial / contingencies measures triggered by monitoring. <p>The development shall be implemented in accordance with the approved plan.</p> <p>Reason: To make appropriate provision for the management of natural habitat within the approved development in the interests of biodiversity and in accordance with RSS policies ENV1 & ENV 2, MLP policy MLP13, WLP policy W10E and BDLPR policy RLP84.</p>	
53. No construction / demolition / excavation works or removal of hedgerows or trees shall be carried out on-site during the bird nesting season and only after an intensive nest search.	<p>55. No demolition, excavation works or removal of hedgerows or trees shall be undertaken on the site during the bird nesting season [1 March to 30 September inclusive] except where a suitably qualified ecological consultant has confirmed that such construction etc should not affect any nesting birds. Details of such written confirmations shall be sent to the Waste Planning Authority 14 days prior to commencement of the works.</p> <p>Reason: To ensure that breeding birds are not disturbed by the removal of habitat or development and in accordance with MLP policy MLP13 and WLP policy W10E and BDLPR policy RLP84.</p>	
Screening and Landscaping		

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
54. There shall only be one stack the CHP stack. The CHP stack shall not exceed 81 m AOD.	<p>56. Only one stack shall be erected on the site to service all elements of the IWMF. The height of the stack shall not exceed 85 m Above Ordnance Datum.</p> <p>Reason: In the interest of the amenity of the local area and to comply with WLP policy W10E and BDLPR policy RLP90</p>	
55. All landscaping and planting shall be undertaken during the first available planting season.	<p>57. No development shall commence until details and a timetable for implementation for all bunding and planting have been submitted to and approved in writing by the Waste Planning Authority. The planting details shall include species, sizes, spacing and protection measures. The bunding details shall include shape and angles of slope and depth of soils. The scheme shall be implemented within the first available planting season [October to March inclusive] following commencement of the development hereby permitted in accordance with the approved details and maintained thereafter in accordance with Condition 58 of this permission. The bunding and planting details and timetable for implementation shall be implemented in accordance with the approved details.</p> <p>Reason: To comply with section 197 of the Town and Country Planning Act 1990 [as amended] to improve the appearance of the site in the interest of visual amenity and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP78.</p>	
56. Any tree or shrub forming part of a planting scheme is damaged, diseased or removed within the period of the operations or 5 years after completion of the operations shall be replaced by the applicants during the next planting season.	<p>58. Any tree or shrub forming part of the retained existing vegetation or the planting scheme approved in connection with the development that dies, is damaged, diseased or removed within the duration of 5 years during and after the completion of construction of the IWMF shall be replaced during the next available planting season (October-March inclusive) with a tree or shrub to be agreed in advance in writing by the Waste Planning Authority.</p> <p>Reason: In the interest of the amenity of the local area and to ensure development is adequately screened and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP78.</p>	
57. No development shall take place until details of tree retention and protection measures have been submitted.	<p>59. No development shall commence until details of tree retention and protection measures have been submitted to and approved in writing by the Waste Planning Authority. The details shall include indications of all existing trees, shrubs and hedgerows on the site and on the immediate adjoining land together with measures for their protection and the approved scheme shall be implemented in accordance with the details approved.</p> <p>Reason: In the interest of visual amenity and to ensure protection for the existing natural environment and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP78.</p>	
58. No development until details for the protection and watering of trees adjacent to the retaining wall have been submitted and approved.	<p>60. No development shall commence until a scheme for the management and watering of trees adjacent to the retaining wall surrounding the IWMF for the period of the excavation of materials and construction of the IWMF, and throughout the first growing season after completion of construction where necessary, has been submitted to and approved in writing by the Waste Planning Authority. The management and watering of trees shall be carried out in accordance with the scheme approved.</p> <p>Reason: In the interest of visual amenity and to ensure protection for the existing natural environment and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP78.</p>	

<p>Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009</p>	<p>Proposed conditions</p>	<p>Comments by parties</p>
<p>Woodhouse Farm/Visitors/Education Centre</p>		
<p>59. No beneficial use shall take place of the visitor and education centre and/or waste management facility until the works to Woodhouse Farm (which require further permissions/consents) have been implemented.</p> <p>60. No development shall commence until details have been submitted of the detailed layout of the parking area adjacent to Woodhouse Farm including hard and soft landscaping details have been submitted for approval.</p> <p>61. No parking within the Woodhouse Farm complex shall take place until suitable vehicle restrictions have been submitted for approval and implemented to prevent access by HGVs except for specific deliveries to the complex.</p>	<p>61. No beneficial use of Woodhouse Farm shall commence until details of the layout of the adjacent parking area including hard and soft landscaping and lighting have been submitted to and approved in writing by the Waste Planning Authority. The parking area shall be provided in accordance with the details approved prior to beneficial use of Woodhouse Farm.</p> <p>Reason: In the interest of the amenity of the local area and to comply with WLP policy W10E and BDLPR policy RLP90 and RLP100.</p>	
	<p>62. Prior to commencement of development details of traffic calming measures designed to reduce the speed of traffic using the access road in the vicinity of the River Blackwater so as to protect potential crossing places for otters and voles have been submitted to and approved in writing by the Waste Planning Authority. The traffic calming measures shall be provided in accordance with the details approved.</p> <p>Reason: To ensure minimum impact on the safe movement of otters and voles and to comply with WLP policy W10E.</p>	
	<p>63. Prior to commencement of development details of the lining and signing of the crossing points of the access road with Church Road and Ash Lane shall be submitted to and approved in writing with the Waste Planning Authority. The lining and signing shall require users of the access road to "Stop" rather than "Give Way". The details shall be implemented as approved.</p> <p>Reason: In the interests of highway safety and safeguarding local amenity and to comply with WLP Policy W10E and BDLPR policy RLP87.</p>	

**Appendix 2 – SOS Decision Ref APP/Z1585/V/09/2104804 dated 2 March
2010 (ECC Ref ESS/37/08/BTE)**

Mr David Watkins
Linklaters LLP
One Silk Street
London
EC2Y 8HQ

Our Ref: APP/Z1585/V/09/2104804

2 March 2010

Dear Mr Watkins,

**TOWN AND COUNTRY PLANNING ACT 1990 – SECTION 77.
APPLICATION BY GENT FAIRHEAD & Co LIMITED
RIVENHALL AIRFIELD, ESSEX, C5 9DF. APPLICATION REF: ESS/37/08/BTE.**

1. I am directed by the Secretary of State to say that consideration has been given to the report of the Inspector, M P Hill BSc MSc CEng MICE FGS, who held a public local inquiry which opened on 29 September into your client's application for an Integrated Waste Management Facility comprising: Anaerobic Digestion Plant treating mixed organic waste, producing biogas converted to electricity through biogas generators; Materials Recovery Facility for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals; Mechanical Biological Treatment facility for the treatment of residual municipal and residual commercial and industrial wastes to produce a solid recovered fuel; De-inking and Pulping Paper Recycling Facility to reclaim paper; Combined Heat and Power Plant (CHP) utilising solid recovered fuel to produce electricity, heat and steam; extraction of minerals to enable buildings to be partially sunken below ground level within the resulting void; visitor/education centre; extension to existing access road; provision of offices and vehicle parking; and associated engineering works and storage tanks, at Rivenhall Airfield, Essex, C5 9DF, in accordance with application reference ESS/37/08/BTE, dated 28 August 2008.

2. It was directed on 12 May 2009, in pursuance of Section 77 of the Town and Country Planning Act 1990, that the application be referred to the Secretary of State instead of being dealt with by the relevant planning authority, Essex County Council because the proposals may conflict with national policies on important matters.

Inspector's recommendation and summary of the decision

3. The Inspector recommended that planning permission be granted subject to conditions. For the reasons given below, the Secretary of State agrees with his recommendation. A copy of the Inspector's report (IR) is enclosed. All references to paragraph numbers, unless otherwise stated, are to that report.

Michael Taylor
Decision Officer
Planning Central Casework Division,
Department for Communities and Local Government
1/J1 Eland House
Bressenden Place
London, SW1E 5DU

Tel: [REDACTED]
Email: PCC@communities.gsi.gov.uk

Procedural matters

4. The Secretary of State notes that the applicants wished the proposal to be considered on the basis of a revised design. Like the Inspector, the Secretary of State does not consider that any prejudice has been caused to any party by accepting these amendments, and has determined the application on this basis (IR1.5).

5. In reaching his decision, the Secretary of State has taken into account the Environmental Information which was submitted under the Town and Country Planning (Environmental Impact Assessment) (England and Wales) Regulations 1999 and comprises those documents set out by the Inspector at IR1.6. The Secretary of State considers that the environmental information as a whole meets the requirements of these regulations and that sufficient information has been provided for him to assess the environmental impact of the application.

6. The Secretary of State notes that the Inspector closed the inquiry in writing on 2 November, having taken into account correspondence received after the last sitting day of the inquiry from the main parties in relation to representations from the Environment Agency (IR1.10). These matters have been dealt with by the Inspector in his report, and the Secretary of State has concluded on them later in this letter. Other correspondence unrelated to this matter was also received from 8 other parties after the last sitting day of the inquiry and the Secretary of State has carefully considered this. However, he does not consider that it raises any new issues which would either affect his decision, or require him to refer back to parties prior to reaching his decision. Copies of this correspondence are not attached to this letter but may be obtained on written request to the above address.

Policy Considerations

7. Section 38(6) of the Planning and Compulsory Purchase Act 2004 requires that proposals be determined in accordance with the development plan unless material considerations indicate otherwise. In this case, the development plan comprises those documents listed at IR3.2. The Secretary of State agrees with the Inspector that the main development plan policies relevant to this application are those set out in IR3.3-3.5.

8. Other material considerations include the national planning guidance listed at IR3.8 and those other documents listed at IR3.9. Circular 11/95, *Use of Conditions in Planning Permission*, and Circular 05/2005, *Planning Obligations* are also material considerations.

9. The Secretary of State has had special regard to the desirability of preserving nearby listed buildings and their settings, or any features of special architectural or historic interest which they possess, as required by sections 16 and 66 of the Planning (Listed Buildings and Conservation Areas) Act 1990. In view of the possible impact of the proposal on the Silver End Conservation Area, the Secretary of State has also paid special attention to the desirability of preserving or enhancing the character or appearance of this area, as required by section 72 of the same Act.

10. Since the inquiry closed the Government has published PPS4: *Planning for Sustainable Economic Growth*. The policies in this document replace, amongst other things, certain relevant policies in PPS7: *Sustainable Development in Rural Areas*. However, the Secretary of State does not consider that there has been any material change in those policies to the extent that it would affect his decision or require him to refer back to parties for further representations prior to reaching his decision.

Main Issues

11. The Secretary of State considers the main issues in this case are those set out by the Inspector at IR13.1.

Prevailing planning policy

12. The Secretary of State agrees with the Inspector's reasoning and conclusions on prevailing planning policy as set out in IR13.2-13.11. He agrees that the proposal is broadly consistent with the policies of the development plan, although it does not comply with all policies (IR13.10). He also agrees that the proposal is generally in accord with national guidance, including that contained in PPS1, PPS7, PPS10, PPG15, PPS22 and PPS23, albeit he accepts there is some conflict (IR13.11). These issues are considered further below.

The quality of the design and sustainability implications, and impact on character and appearance of the area

13. The Secretary of State agrees with the Inspector's reasoning and conclusions on the quality of design, sustainability, and impact on the character and appearance of the area as set out in IR13.12-13.31. He agrees that the design of the proposal would be of high quality (IR13.22), including, for example, the siting of the buildings below ground level and the green roof of the main buildings which would be colonised with mosses (IR13.13). He also agrees that it would be a sustainable form of development which would enable the management of waste to be undertaken in a sustainable manner (IR13.22), including the use of solid recovered fuel in the proposed CHP plant and the export of electricity to the National Grid, which would contribute to meeting the Government's Renewable Energy targets (IR13.19). He further agrees that the proposal would have some urbanising and detrimental impact on the semi-rural character and appearance of the area, for example as a result of the proposed stack, but that with the mitigation measures proposed the overall impact on the character and appearance of the area would be limited (IR13.31).

Consistency with PPS10

14. The Secretary of State agrees with the Inspector's reasoning and conclusions on consistency with PPS10 as set out in IR13.32-13.40. He agrees that the proposal would help to deliver sustainable development by driving waste management up the waste hierarchy, and contribute towards ensuring the timely provision of sufficient waste management facilities to meet the needs of the community. He also agrees that it would help to reduce carbon emissions and would have benefits in terms of climate change (IR13.40).

Need, viability, flexibility and fallback position

15. The Secretary of State agrees with the Inspector's reasoning and conclusions on need, viability, flexibility and the fallback position as set out in IR13.41-13.65. He agrees that the proposal would help to satisfy a substantial and demonstrable need for municipal solid waste and/or commercial and industrial waste to be dealt with in Essex and for Essex County Council to meet challenging targets set out in the East of England Plan (IR13.51). In terms of viability, he agrees that there is no reason to doubt that the MDIP would be capable of competing with a similar facility sited at a paper mill and in this respect it is a viable proposal (IR13.54). On the fallback position, the Secretary of State agrees that there was a reasonable prospect of the recycling and composting facility for which planning permission has already been granted being implemented in the event that he had refused planning permission for the proposal before him (IR13.60). As for the flexibility of the proposal, the Secretary of State agrees that its design and its multiple autonomous process lines would provide a reasonable and sufficient degree of flexibility to enable future changes in the composition of waste and the ways in which waste is managed to be accommodated (IR13.65).

The effect on the living condition of local residents, including the risks to human health

16. The Secretary of State agrees with the Inspector's reasoning and conclusions on the effect on the living condition of local residents, including the risks to human health as set out in IR13.66-13.95. He agrees that air quality could be adequately controlled and there would be no noticeable emissions of dust or odour, but that there would be some minor detrimental impact on living conditions with respect to noise, impact on tranquillity, increase in light, and outlook. However, he is satisfied that the detrimental impacts would be relatively minor and would not be unacceptable (IR13.85). With respect to the risks to human health, the Secretary of State agrees with the Inspector that the plant could be operated without causing any material harm to human health, and that this matter would be adequately dealt with by the Environmental Permitting regime. Like the Inspector, he accepts that the concern of local residents regarding the risk to health would remain as a detrimental impact of the development (IR13.95).

Highway safety and the free flow of traffic

17. For the reasons given in IR13.96-13.104, the Secretary of State agrees with the Inspector's conclusion that the proposed restriction on the number of HGV movements is reasonable and appropriate and that the development would not have an unacceptable impact on highway safety and the free flow of traffic on the road network (IR13.104).

Impact on the local right of way network

18. For the reasons given in IR13.105-13.107, the Secretary of State agrees with the Inspector's conclusion that the impact on the right of way network would be detrimental, (for example, in terms of visual impact) but not to an unacceptable degree (IR13.107).

Ground and surface water; loss of agricultural land; and, habitats, wildlife and protected species

19. The Secretary of State agrees with the Inspector's reasoning and conclusions on ground and surface water; loss of agricultural land; and, habitats, wildlife and protected species, as set out in IR13.108-13.117. With regard to ground and surface water, the Secretary of State agrees that the proposal could be built and operated without causing harm to the River Blackwater or causing contamination to groundwater (IR13.109), and that any localised lowering of the water table as a result of excavations would have little impact on vegetation (IR13.110). On the loss of agricultural land, the Secretary of State agrees that the proposal would result in the loss of Grade 3a agricultural land, which represents a conflict with local and national planning policies (IR13.111). However, he also agrees that its loss is not an overriding issue (IR13.112). With respect to habitats, wildlife and protected species, the Secretary of State agrees with the Inspector that, taking into account the proposed management of existing and proposed water bodies, the creation and management of new habitats, and the planting of woodland and hedgerows, the overall bio-diversity of the area would be enhanced (IR13.117).

The impact on listed buildings and the Silver End Conservation area, and the historic value of the airfield

20. The Secretary of State agrees with the Inspector's reasoning and conclusions on the impact on listed buildings and the Silver End Conservation area, and the historic value of the airfield, as set out in IR13.118-13.125. He agrees that the scheme as a whole would preserve the settings, character and appearance of the listed buildings and of the conservation area (IR13.122 and 13.123). He also agrees that there is no justification for withholding planning permission at the site because of its historic value as an airfield (IR13.125).

Other matters and mitigation measures

21. The Secretary of State agrees with the Inspector's reasoning and conclusions on other matters and mitigation measures, as set out in IR13.126-13.129.

Conditions and obligations

22. The Secretary of State agrees with the Inspector's reasoning and conclusions on conditions and obligations, as set out in IR13.131-13.162. On the specific matter of the Secretary of State's view on whether a taller stack would be acceptable, he agrees with the Inspector's opinion at IR13.159 that until a more thorough assessment is undertaken and the views of all those who may be affected by such a change in the proposal have been thoroughly canvassed, no firm conclusions can be reached, and that with regard to the existing proposals, condition 56 is appropriate.

23. The Secretary of State is satisfied that the recommended conditions are reasonable and necessary and meet the tests of Circular 11/95. He also considers that the s106 agreement is relevant to the proposal and would meet the tests contained Circular 05/2005.

Overall conclusion

24. As set out above, the Secretary of State has identified some conflict with development plan policies, such as those brought about by the impact on the character and appearance of the area, impact on living conditions, and loss of Grade 3a agricultural land. However, he also considers that mitigation measures proposed would reduce this impact, and that they are not of such a magnitude as to refuse planning permission.

25. Those factors in favour of the proposal include that it would meet a need for the sustainable management of waste in line with PPS10, and would help to reduce carbon emissions. The proposal would also operate without causing any material harm to human health.

26. Having weighed up all relevant considerations, the Secretary of State concludes that the factors which weigh in favour of the proposed development outweigh its shortcomings and overcome the limited conflicts with the development plan which he has identified. Therefore he does not consider that there are any material considerations of sufficient weight which would justify refusing planning permission.

Formal decision

27. Accordingly, for the reasons given above, the Secretary of State agrees with the Inspector's recommendation. He hereby allows your client's appeal and grants planning permission for an Integrated Waste Management Facility comprising: Anaerobic Digestion Plant treating mixed organic waste, producing biogas converted to electricity through biogas generators; Materials Recovery Facility for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals; Mechanical Biological Treatment facility for the treatment of residual municipal and residual commercial and industrial wastes to produce a solid recovered fuel; De-inking and Pulping Paper Recycling Facility to reclaim paper; Combined Heat and Power Plant utilising solid recovered fuel to produce electricity, heat and steam; extraction of minerals to enable buildings to be partially sunken below ground level within the resulting void; visitor/education centre; extension to existing access road; provision of offices and vehicle parking; and associated engineering works and storage tanks, in accordance with application number ESS/37/08/BTE dated 26 August 2008 (as amended) subject to the conditions listed in Annex A.

28. An applicant for any consent, agreement or approval required by a condition of this permission for agreement of reserved matters has a statutory right of appeal to the Secretary of State if consent, agreement or approval is refused or granted conditionally or if the Local Planning Authority fail to give notice of their decision within the prescribed period.

29. This letter does not convey any approval or consent which may be required under any enactment, bye-law, order or regulation other than section 57 of the Town and Country Planning Act 1990.

30. This letter serves as the Secretary of State's statement under regulation 21(2) of the Town and Country (Environmental Impact Assessment) (England and Wales) Regulations 1999.

Right to challenge the decision

31. A separate note is attached setting out the circumstances in which the validity of the Secretary of State's decision may be challenged by making an application to the High Court within six weeks from the date of this letter.

32. A copy of this letter has been sent to Essex County Council and all parties who appeared at the inquiry.

Yours sincerely

Michael Taylor
Authorised by Secretary of State to sign in that behalf

Annex A – Planning Conditions

1. The development hereby permitted shall be begun before the expiration of 5 years from the date of this permission. Not less than 30 days prior notification of commencement of the development shall be given in writing to the Waste Planning Authority.

2. The development hereby permitted shall only be carried out in accordance with drawing numbers:

1-1: Land Ownership & Proposed Site Plan

1-2: Proposed Planning Application Area

1-4: Access Road Details

1-5A: Typical Arrangement and Architectural Features of the eRCF

1-8: Schematic Arrangement of Woodhouse Farm

1-9: eRCF Simplified Process Flow

1-10: eRCF Integrated Process Flow

3-3: Site Plan Layout

3-8C: eRCF General Arrangement

3-12C: eRCF Detailed Cross-Sections

3-14A: eRCF Upper Lagoon & Wetland Shelf

3-16: Services Plan

3-19B: eRCF General Arrangement

8-6: Landscape Mitigation Measures

IT569/SK/06: Proposed Improvements to Site Access Road Junction with Church Road

IT569/SK/07: Proposed Improvements to Site Access Road Junction with Ash Lane

19-2B: Tree Survey

19-3B: The Constraints and Protection Plan

19-5: eRCF Base Plan Woodhouse Farm

3. The total number of Heavy Goods Vehicle (HGV¹) movements associated with the excavation of materials (i.e. overburden, sand, gravel, and boulder clay) and import and/or export of materials associated with the operation of the completed Integrated Waste Management Facility (IW²) hereby permitted shall not exceed the following limits:

404 movements 202 in and 202 out per day (Monday to Friday);

202 movements 101 in and 101 out per day (Saturdays);

and shall not take place on Sundays, Public or Bank Holidays, except for clearances from Household Waste Recycling Centres between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority. No HGV movements shall take place outside the hours of operation authorised in Conditions 34 & 36 of this permission.

¹An HGV shall be defined as having a gross vehicle weight of 7.5 tonnes or more.

² IW² shall be defined as the buildings, structures and associated plant and equipment for the treatment of waste at the site.

4. The total number of HGV vehicle movements associated with the construction of the IW² (including deliveries of building materials) when combined with the maximum permitted vehicle movements under Condition 3 shall not exceed the following limits:

404 movements 202 in and 202 out per day (Monday to Sunday).

No HGV movements shall take place outside the hours of operation authorised in Condition 35 of this permission.

5. A written record of daily HGV movements into and out of the site shall be maintained by the operator from commencement of the development and kept for the previous 2 years and shall be supplied to the Waste Planning Authority within 14 days of a written request . The details for each vehicle shall include the identity of the vehicle operator, the type and size of the vehicle, the vehicle registration number, and an indication of whether the vehicle is empty or loaded.

6. No development shall commence until full details of the extended access road and the layout of the cross-over points (both temporary and permanent) where the access road, both existing and proposed, crosses public footpaths, as shown on the Definitive Map and Statement of Public Rights of Way have been submitted to and approved in writing by the Waste Planning Authority. The extended access road and cross-over points shall be implemented in accordance with the approved details.

7. No works on the construction of the IWFM shall commence until the access road extension and widening and all footpath cross-over points have been constructed.

8. No vehicles shall access or egress the site except via the access onto the Coggeshall Road (A120 trunk road) junction as shown on application drawing Figure 1-2.

9. No vehicles shall park on the haul road between the A120 and Ash Lane.

10. No development or preliminary groundworks shall take place until a written scheme and programme of archaeological investigation and recording has been submitted to and approved in writing by the Waste Planning Authority. The scheme and programme of archaeological investigation and recording shall be implemented prior to the commencement of the development hereby permitted or any preliminary groundworks.

11. No airfield buildings and/or structures shall be demolished until the Level 3 survey in accordance with the 2006 English Heritage Guidance entitled "Understanding Historic Buildings: A Guide to Good Recording Practice" of the airfield buildings and/or structures has been completed.

12. No ecological management works affecting the moat adjacent to Woodhouse Farm shall commence until details of the proposed works and proposed water supply for the moat and a timescale for its implementation have been submitted to and approved in writing by the Waste Planning Authority. The works to the moat and water supply arrangements shall be implemented in accordance with the details approved.

13. No development shall commence until details of signage, telecommunications equipment and lighting within the Woodhouse Farm complex (comprising Woodhouse Farmhouse, the Bakehouse, and the listed pump together with the adjoining land outlined in green on Plan 1 (which can be found in the S106 agreement)) have been submitted to and approved in writing by the Waste Planning Authority. The signage, telecommunications equipment and lighting shall be implemented in accordance with the details approved.

14. No development shall commence until details of the design of the stack serving the IWFM have been submitted to and approved in writing by the Waste Planning Authority. The details to be submitted shall include:

- (a) elevations, sections and plan views to appropriate scales and construction details;
- (b) samples of the finish of the stack to provide a mirrored reflective surface; and

(c) information on the effect of weathering on the proposed stack material or how the effect of weathering is to be assessed by, for example the location on the site of examples of proposed materials which will be exposed to the elements and details of how the stack would be maintained to retain the quality of the surface of these materials.

The stack shall be constructed and maintained in accordance with the details approved

15. No development shall commence until design details and samples of the external construction materials, colours and finishes of the external cladding of the IWMF buildings and structures, and design and operation of the vehicle entry and exit doors, have been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the details and samples approved.

16. Not used

17. No development shall commence until a management plan for the CHP plant to ensure there is no visible plume from the stack has been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the approved plan.

18. No construction of the IWMF shall commence until details of the green roofs proposed for the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The green roofs shall be implemented in accordance with the details approved.

19. No works to install process equipment or plant within the IWMF shall commence until details of the IWMF process layout and configuration have been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the approved details.

20. No development shall commence until details of the construction compounds and parking of all vehicles and plant and equipment associated with the extraction of materials and the construction of the IWMF have been submitted to and approved in writing with the Waste Planning Authority. The details shall include location, means of enclosure and surfacing. The compounds and parking shall be implemented in accordance with the approved details.

21. No beneficial occupation of the IWMF shall commence until details of the provision to be made for and the marking out of parking spaces for cars, HGVs and any other vehicles that may use the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The parking provision and marking out shall be implemented in accordance with the approved details. The parking areas shall be retained and maintained permanently for manoeuvring and parking. No HGVs shall park in the parking area adjacent to Woodhouse Farm complex except in relation to deliveries for the uses at Woodhouse Farm complex.

22. No development shall commence until a detailed scheme for foul water management, including details of the design and operation of the foul water system for the IWMF and Woodhouse Farm complex has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall be implemented in accordance with the details approved prior to the commencement of operation of the IWMF.

23. No development shall commence until a detailed scheme for surface water drainage and ground water management, including details of water flows between the Upper Lagoon and the New Field Lagoon has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall be implemented in accordance with the approved details.

24. No excavation shall commence until a scheme of ground water monitoring for the site has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall identify the locations for the installation of boreholes to monitor groundwater and the frequency of monitoring. The scheme shall be implemented in accordance with the details approved prior to the commencement of excavations on the site.

25. No development shall commence until an investigation to identify whether the site is contaminated has been carried out and details of the findings including any land remediation and mitigation measures necessary should contamination be identified. The development shall be implemented in accordance with the approved details including any remediation and mitigation identified.

26. The market de-inked paper pulp plant shall only source its heat steam and energy from the IWWMF with the exception of periods of start-up and maintenance and repair of the IWWMF.

27. No waste, except pre-sorted waste paper and card and Solid Recovered Fuel, shall be brought on to the site other than that arising from within the administrative area of Essex and Southend-on-Sea. Records indicating the origin of all waste consignments and tonnages brought to the site shall be kept and made available for inspection by the Waste Planning Authority for at least 2 years after receipt of the waste. The records shall be made available to the Waste Planning Authority within 14 days of a written request.

28. (i) SRF shall be sourced internally from the IWWMF or within the administrative boundaries of Essex and Southend-on-Sea.

(ii) If the Waste Planning Authority is satisfied that the operator has used its reasonable endeavours to source SRF from these sources and there remains capacity within the IWWMF, then SRF arising from elsewhere within the East of England may be used up to the available capacity for a period up to three years from the date of the agreement of the Waste Planning Authority.

(iii) No development shall commence until a scheme giving effect to the requirement of clause (i) above of this condition is submitted to and approved in writing by the Waste Planning Authority. The approved scheme shall be implemented as approved.

29. No waste other than those waste materials defined in the application shall enter the site for processing or treatment in the IWWMF plant. No more than 853,000tpa of Municipal Solid Waste and/or Commercial and Industrial Waste shall be imported to the site.

30. (i) No more than 50% of the imported waste paper and card (based on a nominal imported tonnage of pre-sorted waste paper and card of 360,000 tpa) shall be sourced from outside the administrative boundaries of the East of England Region.

(ii) If the Waste Planning Authority is satisfied that the operator has used its reasonable endeavours to source 50% of the imported pre-sorted waste paper and card from within the East of England region, then the imported pre-sorted waste paper and card may be sourced from outside the East of England Region for a period of up to 5 years from the date of written agreement of the Waste Planning Authority.

(iii) No development shall commence until a scheme giving effect to the requirement of clause (i) above of this condition is submitted to and approved in writing by the Waste Planning Authority. The approved scheme shall be implemented as approved.

31. No waste brought onto the site shall be deposited, handled, stored, composted or otherwise processed outside the IWWMF buildings and structures.

32. All waste materials shall be imported and exported from the site in enclosed, containerised or sheeted vehicles.

33. No vehicle shall leave the IWMMF site without first having been cleansed of all loose residual mineral or waste materials from the vehicle's body and chassis.

34. No removal of soils or excavation of overburden, boulder clay, sand and gravel shall be carried out other than between the following hours:

07:00-18:30 hours Monday to Friday; and,

07:00 -13:00 hours Saturdays;

and shall not take place on Sundays, Bank and Public Holidays

except for water pumping, environmental monitoring and occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.

35. The construction works (including deliveries of building materials) for the development hereby permitted shall only be carried out between 07:00-19:00 hours Monday to Sunday and not on Bank and Public Holidays except for occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.

36. No waste or processed materials shall be imported or exported from any part of the IWMMF other than between the following hours:

07:00 and 18:30 hours Monday to Friday; and,

07:00 and 13:00 hours on Saturdays, and not on Sundays, Public or Bank Holidays

except for clearances from Household Waste Recycling Centres on Sundays and Bank and Public Holidays between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority.

37. No development shall commence until visible, legible and durable British Standard signs have been erected on both sides of the access road at the point where footpaths as shown on the Definitive Map, cross the access road to warn pedestrians and vehicles of the intersection. The signs shall read: 'CAUTION: PEDESTRIANS CROSSING' and 'CAUTION: VEHICLES CROSSING' and shall be maintained for the duration of the development.

38. Except for temporary operations, as defined in Condition 42, between the hours of 07:00 and 19:00 the free field Equivalent Continuous Noise Level (LAeq 1 hour) at noise sensitive properties adjoining the Site, due to operations in the Site, shall not exceed the LAeq 1 hour levels set out in the following table:

Noise Sensitive Properties

Location Criterion

dB L A eq 1 hour

Herring's Farm	45
Deeks Cottage	45
Haywards	45
Allshot's Farm	47
The Lodge	49
Sheepcotes Farm	45
Greenpastures Bungalow	45
Goslings Cottage	47
Goslings Farm	47

Goslings Barn	47
Bumby Hall	45
Parkgate Farm Cottages	45

Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.

39. The free field Equivalent Continuous Noise Level (LAeq 1 hour) shall not exceed 42 dB(A) LAeq 1hour between the hours of 19:00 and 23:00, as measured or predicted at noise sensitive properties, listed in Condition 38, adjoining the site. Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.

40. The free field Equivalent Continuous Noise Level (LAeq 1 hour) shall not exceed 40 dB(A) LAeq 5min between the hours of 23:00 and 07:00, as measured and/or predicted at 1 metre from the façade facing the site at noise sensitive properties, listed in Condition 38, adjoining the site.

41. Noise levels shall be monitored at three monthly intervals at up to five of the locations, listed in Condition 38, as agreed with the Waste Planning Authority. The results of the monitoring shall include the LA90 and LAeq noise levels, the prevailing weather conditions, details of the measurement equipment used and its calibration and comments on the sources of noise which control the noise climate. The survey shall be for four separate 15 minute periods, two during the working day 0700 and 1830, and two during the evening/night time 18:30 to 07:00 hours, the results shall be kept by the operating company during the life of the permitted operations and a copy shall be supplied to the Waste Planning Authority. After the first year of operation of the IWMMF, the frequency of the monitoring may be modified by agreement with the Waste Planning Authority.

42. For temporary operations at the site in relation to the excavation of materials, the free field noise level at sensitive properties, listed in Condition 38, adjoining the site shall not exceed 70dB LAeq 1 hour, due to operations on the site. Temporary operations shall not exceed a total of eight weeks in any continuous 12 month period for work affecting any noise sensitive property. Not less than 5 days written notice shall be given to the Waste Planning Authority in advance of the commencement of any temporary operation. Temporary operations shall include site preparation, bund formation and removal, site stripping and restoration, and other temporary activity as may be agreed, in advance of works taking place, with the Waste Planning Authority.

43. No lighting for use during excavation of materials or construction of the IWMMF within the site shall be erected or installed until details of the location, height, design, sensors and luminance have been submitted to and approved in writing by the Waste Planning Authority. The lighting details shall be such that no lighting shall exceed 5 lux maintained average luminance. The lighting details with respect to excavation of materials shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. The lighting details with respect to construction of the IWMMF shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1900 Monday to Sunday and at no time on, Bank or Public Holidays except for security and safety lighting activated by sensors. The details shall ensure the lighting is designed to minimise the potential nuisance of light spillage from the boundaries of the site. The lighting shall thereafter be erected, installed and operated in accordance with the approved details.

44. No lighting for use during operation of the IWMF within the site shall be erected or installed until details of the location, height, design, sensors, times and luminance have been submitted to and approved in writing by the Waste Planning Authority. The lighting details shall be such that no lighting shall exceed 5 lux maintained average luminance. The lighting details shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. The details shall ensure the lighting is designed to minimise the potential nuisance of light spillage from the boundaries of the site. The lighting shall thereafter be erected, installed and operated in accordance with the approved details.

45. No development shall commence until a detailed phasing scheme for the construction of the access road for the creation of the retaining wall around the site of the IWMF and extraction of the minerals from the site has been submitted to and approved in writing by the Waste Planning Authority. The development shall be carried out in accordance with the approved phasing scheme.

46. No development shall commence until details of soil handling, soil storage and machine movements and the end use of soils have been submitted to and approved in writing by the Waste Planning Authority. The development shall be carried out in accordance with the details approved.

47. Unless otherwise agreed in writing by the Waste Planning Authority, no topsoil, subsoil and/or soil making material shall be stripped or handled unless it is in a dry and friable condition³ and no movement of soils shall take place:

During the months November to March (inclusive);

(a) When the upper 50 mm of soil has a moisture content which is equal to or greater than that at which the soil becomes plastic, tested in accordance with the 'Worm Test' as set out in BS1377:1977, 'British Standards Methods Test for Soils for Civil Engineering Purposes'; or

(b) When there are pools of water on the soil surface.

³ The criteria for determining whether soils are dry and friable involves an assessment based on the soil's wetness and lower plastic limit. This assessment shall be made by attempting to roll a ball of soil into a thread on the surface of a clean glazed tile using light pressure from the flat of the hand. If a thread of 15cm in length and less than 3mm in diameter can be formed, soil moving should not take place until the soil has dried out. If the soil crumbles before a thread of the aforementioned dimensions can be made, then the soil is dry enough to be moved.

48. No minerals processing other than dry screening of excavated sand and gravel or in the reformation of levels using Boulder or London Clays shall take place within the site.

49. Any fuel, lubricant or/and chemical storage vessel whether temporary or not shall be placed or installed within an impermeable container with a sealed sump and capable of holding at least 110% of the vessel's capacity. All fill, draw and overflow pipes shall be properly housed within the bunded area to avoid spillage. The storage vessel, impermeable container and pipes shall be maintained for the duration of the development.

50. Prior to the commencement of development, details of any temporary or permanent site perimeter fencing shall be submitted to and approved in writing by the Waste Planning Authority. The fencing shall be erected in accordance with the details approved.

51. (a) No development shall take place until a scheme and programme of measures for the suppression of dust, have been submitted to and approved in writing by the Waste Planning Authority. The scheme shall include the suppression of dust caused by the moving, processing and storage of soil, overburden, stone and other materials within the

site during excavation of materials and construction of the IWMF

(b) No beneficial occupation of the IWMF shall commence until a scheme and programme of measures for the suppression of dust, have been submitted to and approved in writing by the Waste Planning Authority. The scheme shall include:

- (i) ; The suppression of dust caused by handling, storage and processing of waste; and
- (ii) Dust suppression on haul roads, including speed limits.

In relation each scheme provision for monitoring and review.

The development shall be implemented in accordance with the approved schemes and programme for the duration of the development hereby permitted.

52. (a) No development shall commence until details of measures to control any fugitive odour from the excavation of materials and construction of the IWMF have been submitted to and approved in writing by the Waste Planning Authority the measures shall be implemented as approved.

(b) No beneficial occupation of the IWMF shall commence until details of equipment required to control any fugitive odour from the handling/storage/processing of waste have been submitted to and approved in writing by the Waste Planning Authority. The details shall be implemented as approved.

53. Prior to the commencement of development a further ecological survey of the Site shall be carried out to update the information contained within the Environmental Statement and the impact of the development assessed and if required mitigation measures as set out within the Environmental Statement updated and amended to mitigate any impacts. Prior to the commencement of development, the ecological survey assessment of impact and any updated and amended mitigation shall be submitted to and approved in writing by the Waste Planning Authority. Any updated or amended mitigation shall be carried out in accordance with the approved details.

54. No development shall commence until a habitat management plan including details of the proposed management and mitigation measures described in the Environmental Statement (amended) has been submitted to and approved in writing by the Waste Planning Authority. The plan shall include:

- (i) Description and evaluation of the features to be managed;
- (ii) Ecological trends and constraints on site that may influence management;
- (iii) Aims and objectives of management;
- (iv) Appropriate management options for achieving aims and objectives;
- (v) Prescriptions for management actions;
- (vi) Preparation of a work schedule (including a 5 yr project register, an annual work plan and the means by which the plan will be rolled forward annually);
- (vii) Personnel responsible for implementation of the plan; and,
- (viii) Monitoring and remedial/contingencies measures triggered by monitoring.

The development shall be implemented in accordance with the approved plan.

55. No demolition, excavation works or removal of hedgerows or trees shall be undertaken on the site during the bird nesting season [1 March to 30 September inclusive] except where a suitably qualified ecological consultant has confirmed that such construction etc should not affect any nesting birds. Details of such written confirmations shall be sent to the Waste Planning Authority 14 days prior to commencement of the works.

56. Only one stack shall be erected on the site to service all elements of the IWMF. The height of the stack shall not exceed 85 m Above Ordnance Datum.

57. No development shall commence until details and a timetable for implementation for all

bunding and planting have been submitted to and approved in writing by the Waste Planning Authority. The planting details shall include species, sizes, spacing and protection measures. The bunding details shall include shape and angles of slope and depth of soils. The scheme shall be implemented within the first available planting season (October to March inclusive) following commencement of the development hereby permitted in accordance with the approved details and maintained thereafter in accordance with Condition 58 of this permission. The bunding and planting details and timetable for implementation shall be implemented in accordance with the approved details.

58. Any tree or shrub forming part of the retained existing vegetation or the planting scheme approved in connection with the development that dies, is damaged, diseased or removed within the duration of 5 years during and after the completion of construction of the IW MF, shall be replaced during the next available planting season (October-March inclusive) with a tree or shrub to be agreed in advance in writing by the Waste Planning Authority.

59. No development shall commence until details of tree retention and protection measures have been submitted to and approved in writing by the Waste Planning Authority. The details shall include indications of all existing trees, shrubs and hedgerows on the site and on the immediate adjoining land together with measures for their protection and the approved scheme shall be implemented in accordance with the details approved.

60. No development shall commence until a scheme for the management and watering of trees adjacent to the retaining wall surrounding the IW MF for the period of the excavation of materials and construction of the IW MF, and throughout the first growing season after completion of construction where necessary, has been submitted to and approved in writing by the Waste Planning Authority. The management and watering of trees shall be carried out in accordance with the scheme approved.

61. No beneficial use of Woodhouse Farm shall commence until details of the layout of the adjacent parking area including hard and soft landscaping and lighting have been submitted to and approved in writing by the Waste Planning Authority. The parking area shall be provided in accordance with the details approved prior to beneficial use of Woodhouse Farm.

62. Prior to commencement of development, details of traffic calming measures designed to reduce the speed of traffic using the access road in the vicinity of the River Blackwater so as to protect potential crossing places for otters and voles, shall be submitted to and approved in writing by the Waste Planning Authority. The traffic calming measures shall be provided in accordance with the details approved.

63. Prior to commencement of development, details of the lining and signing of the crossing points of the access road with Church Road and Ash Lane shall be submitted to and approved in writing with the Waste Planning Authority. The lining and signing shall require users of the access road to "Stop" rather than "Give Way". The details shall be implemented as approved.

**Appendix 3 – ESS/34/15/BTE (Variation of IWMF permission) - Development
& Regulation Committee Report 26 February 2016**

DR/05/16

committee DEVELOPMENT & REGULATION

date 26 February 2016

MINERALS AND WASTE

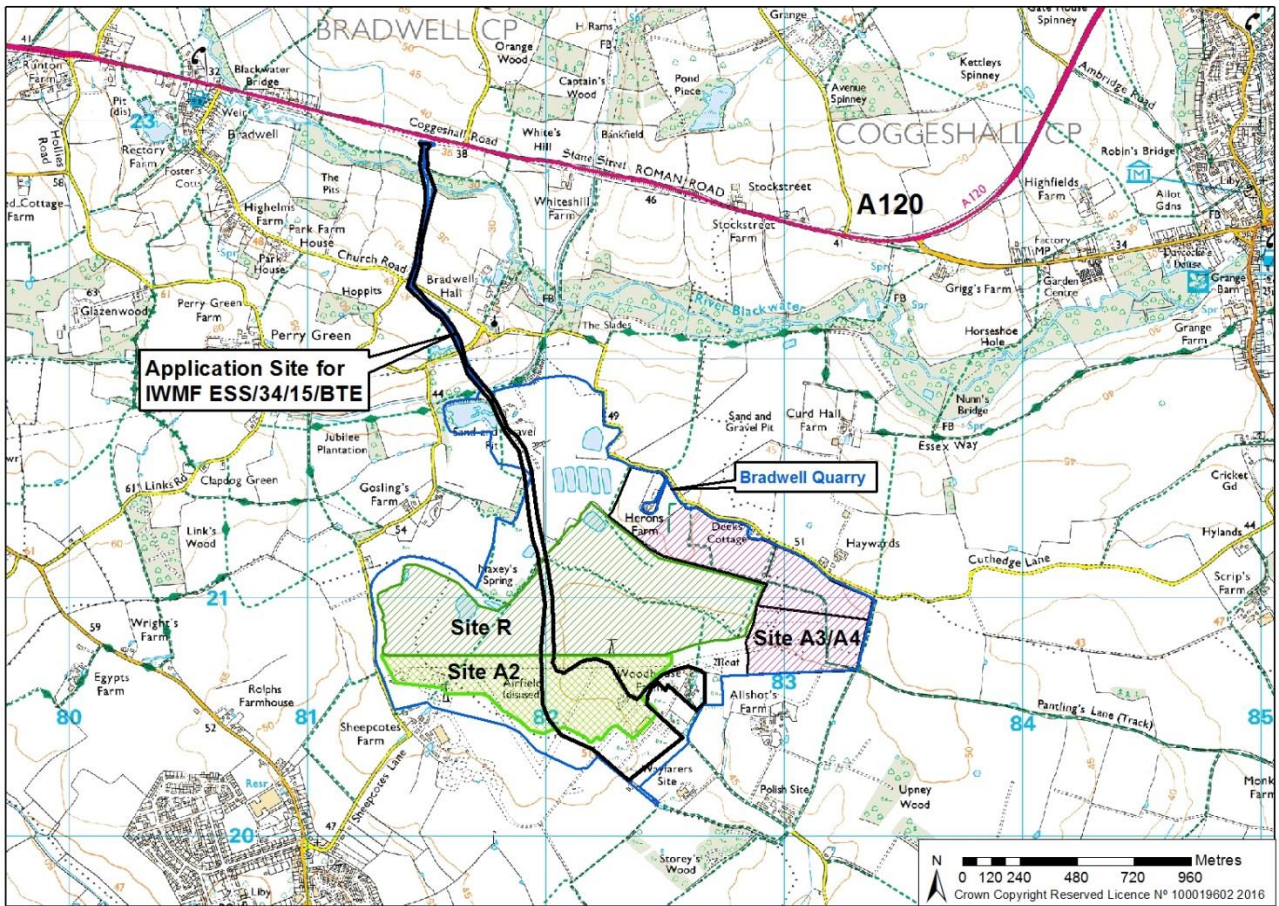
Proposal: **Variation of condition 2 (application drawings) of planning permission ESS/55/14/BTE to allow amended layout of the Integrated Waste Management Facility. The Integrated Waste Management Facility comprising: Anaerobic Digestion Plant treating mixed organic waste, producing biogas converted to electricity through biogas generators; Materials Recovery Facility for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals; Mechanical Biological Treatment facility for the treatment of residual municipal and residual commercial and industrial wastes to produce a solid recovered fuel; De-inking and Pulping Paper Recycling Facility to reclaim paper; Combined Heat and Power Plant (CHP) utilising solid recovered fuel to produce electricity, heat and steam; extraction of minerals to enable buildings to be partially sunken below ground level within the resulting void; visitor/education centre; extension to existing access road; provision of offices and vehicle parking; and associated engineering works and storage tanks. And approval of details required by condition (the details taking account of the proposed amended drawings), the conditions sought to be discharged are as follows: 6 (access road, cross over points), 13 Signage, Telecommunications & Lighting at Woodhouse Farm complex, 14 Stack design and finishes, 17 (management plan for the CHP), 18 (green roof), 20 (construction compounds, parking of vehicles), 22 (foul water management), 23 (surface water drainage and ground water management), 24, (groundwater monitoring), 37 (signs on access road at footpath crossings), 43 (lighting scheme during construction), 45 (phasing scheme for access road, retaining wall and mineral extraction), 50 (fencing – temporary and permanent), 53 (ecological survey update), 54 (Habitat Management Plan update), 57 (landscaping – bunding & planting), 59 (trees, shrubs and hedgerows – retention and protection), 60 (tree management and watering adjacent to retaining wall), 61 (Woodhouse Farm parking and landscaping), 62 (traffic calming measures at River Blackwater for otters and voles) and 63 (access road crossing points – lining and signing)**

Location: **Land at Rivenhall Airfield, Coggeshall Road (A120), Braintree CO5 9DF**Ref: **ESS/34/15/BTE**Applicant: **Gent Fairhead & Co. Limited**

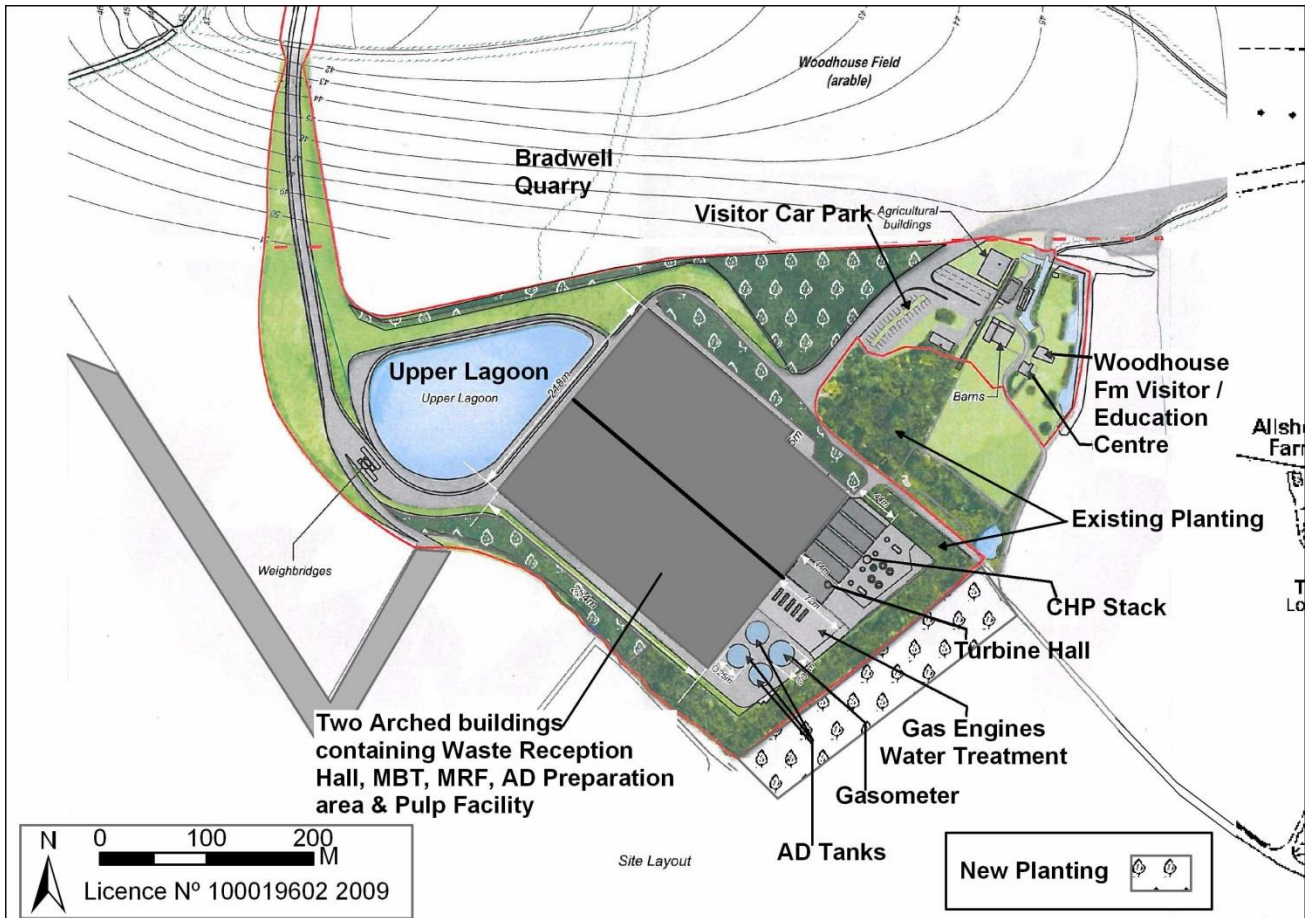
Report by Director of Operations: Environment and Economy

Enquiries to: Claire Tomalin Tel: XXXXXXXXXXThe full application can be viewed at www.essex.gov.uk/viewplanning

Location plan



Permitted layout of ESS/37/08/BTE



Proposed Layout ESS/34/15/BTE – internal layout of the building only indicative



1. BACKGROUND

In 2006 a planning application (ESS/38/06/BTE) was made for a Recycling & Composting facility (RCF) at Rivenhall airfield. The proposal included a two arch building sunk below natural ground levels following mineral extraction. The application included a Materials Recycling Facility, Mechanical Biological Treatment facility and Anaerobic digestion. The planning permission was issued in 2009, but expired in 2014.

In August 2008 a further planning application (ESS/37/08/BTE) was made for the evolution to the Recycling & Composting Facility (the eRCF, now known as the Integrated Waste Management Facility (IWMF)) at Rivenhall airfield. This application included the same elements as the 2006 application but extended the facility to include a Combined Heat Power plant and de-ink paper pulp facility but remained on the same footprint as the RCF. The application was “called-in” for determination by the Secretary of State (SoS). The Committee nonetheless considered the application in April 2009 and it was resolved that, had the decision been left to the Waste Planning Authority, the development would have been approved subject to conditions and a legal agreement.

The Call-In Public Inquiry was held in Sept/Oct 2009 and the Secretary of State (SoS) issued the Inspector’s report and decision on 2 March 2010, granting planning permission subject to conditions and a legal agreement. The Inspectors Report and SoS decision letter from 2010 are attached at Appendix H & I

To date the planning permission issued by the S-o-S has not been implemented.

The permitted IWMF scheme is a waste facility permitted to receive Local Authority Collected Waste (LACW) and/or Commercial and Industrial (C& I) waste. The permitted IWMF consists of a two-arched roofed building set partly below ground level. Some plant would be located to the rear of the building, but would be no higher than the height of the building except for a stack limited to 85m Above Ordnance Datum (or 35m above natural surrounding ground levels).

The permitted IWMF includes an

- Anaerobic Digestion (AD) facility treating food and green waste generating biogas for production of electricity on site and generating a compost like output.
- Materials Recycling facility (MRF) which would sort through waste recovering recyclables such as paper, card, plastics and metal. Recyclables, except some paper would be exported from the site for reprocessing.
- Mechanical Biological Treatment (MBT) facility, treating waste by mechanical treatment e.g. shredding and then biological treatment using air and moisture to bio-stabilise the waste, the output being a Refuse Derived Fuel (RDF)
- Combined Heat and Power (CHP) plant, using the RDF generated on site and some imported to RDF/Solid Recovered Fuel (SRF) to generate heat, steam and electricity to be used on site. Some electricity would be exported

- to the National Grid.
- De-Ink Paper pulp plant would reprocess waste paper imported to the site, as well as any suitable paper recovered by the MRF and would utilise, heat, steam and power generated by the CHP. Paper pulp board would be exported from the site

The IWMF planning permission also included the extraction of 750,000 tonnes of sand and gravel, as well as clays and overburden, to enable the building and plant to be partly below natural ground levels. In 2011 a planning application (ESS/32/11/BTE – site A2) was made for the extraction of sand and gravel within the area known as site A2 and included the site of the IWMF. Planning permission was granted in February 2013 which gave consent to extract the majority of the mineral permitted to be removed as part of the IWMF. There remains 100,000 tonnes of sand and gravel to be extracted below Tree Preservation Order (TPO) woodland within the site of IWMF. Site A2 has now been worked for sand and gravel, the airfield hangar removed and the area under restoration. The site for the IWMF is permitted to be restored to a bowl under the mineral permission and is required to be restored independently to this if the IWMF permission was not implemented.

In October 2014 the Committee considered a planning application (ESS/41/14/BTE) to amend the original planning permission for the IWMF to allow an extension of time of 2 years to the period for implementation of the planning permission. Planning permission was granted for a one year extension of time in December 2014 such that the permission is required to be implemented by 2 March 2016. The applicant has appealed (PINS Ref APP/Z1585/W/15/3053088) decision, seeking to obtain the additional year until 2 March 2017 and a decision is awaited from the Planning Inspectorate.

A further planning application (ESS/55/14/BTE) was made in December 2014 and considered by the Committee in February 2015, which sought to delete two conditions such that the imported RDF/SRF to be utilised in the CHP facility and paper and card to be processed within the paper pulp facility could be sourced without constraint as to its geographical source i.e. outside of Essex & Southend. The application was granted and the conditions deleted. The most recent permission for the IWMF is therefore ESS/55/14/BTE. A copy of the conditions attached to ESS/55/14/BTE is set out in Appendix A.

The variation application for the IWMF seeks to vary planning permission ESS/55/14/BTE and secure discharge of some conditions.

Since the submission of the application to vary the IWMF permission a separate planning application (ESS/07/16/BTE) was made in January 2016, to allow utilisation of the overburden from the IWMF site to be used in the restoration of Bradwell Quarry, rather than as currently permitted which requires it to be exported from the site. This separate application also seeks to allow the remaining mineral within the IWMF site to be processed at Bradwell Quarry and to allow creation of a temporary water lagoon to enable the permitted New Field Lagoon to be constructed while still ensuring adequate water supply for the quarry and capacity to manage surface water. This application is currently at consultation stage, but in

the event it was unacceptable, implementation of the IW MF overburden would not be precluded as the overburden could still be exported as currently permitted.

The current application (ESS/34/15/BTE) has been supported by all of the previous submitted Environment Impact Assessment (EIA) information, and is also supported by a review of all the matters previously considered to assess whether as a result of the proposed amendments further reassessment of the environmental impacts were required. Where appropriate updates were provided.

Further information has been required to be submitted to support the current planning application.

This further EIA information was submitted to cover the following matters:

- An updated and comprehensive assessment of the environmental baseline applicable to the entirety of the proposed development.
- A cumulative Impact Assessment taking account of all reasonable foreseeable developments, including the adjacent mineral workings, the necessary connection to the National Grid, water abstraction and discharge pipework.

It should be noted that while the further information considered the environmental impact of the cabling required to connect the IW MF to the National Grid and the pipework for the water abstraction and the potential future water abstraction with discharge, the routes of the cabling and pipework do not form part of the current application.

A review of the Environmental Statement is set out in Appendix G

An Environmental Permit application for the IW MF was submitted to the Environment Agency in November 2015 and was subject of public consultation by the EA. To date an Environmental Permit remains to be issued.

NB There is a glossary of abbreviations at Appendix J.

2. SITE

The application site is located east of Braintree, approximately 3km south east of Bradwell village, approximately 1km to the north east of Silver End and approximately 3km south west of Coggeshall. The application site totals 25.3 hectares and includes the access road from Coggeshall Road (A120 trunk road).

The area for development of the IW MF lies on the southern part of the former Rivenhall airfield, now largely removed following mineral extraction as part of Bradwell Quarry. The site of the IW MF itself is located approximately 1.7km south of Coggeshall Road and includes the Grade II Listed Woodhouse Farm and its buildings and includes the 6ha area identified as a “preferred location for waste management” (WM1) in the Waste Local Plan 2001. The site also includes TPO woodland.

The site for the IWMMF overlaps with Bradwell Quarry where sand and gravel extraction with low level restoration to agriculture/biodiversity/water and woodland is anticipated to be completed by 2018. However further preferred/reserved sites are allocated in the Minerals Local Plan 2014 which would extend the life of the quarry if granted. The location plan shows the extent of previous and current mineral extraction areas; Site R permitted in 2001; site A2 permitted in 2011 (which included extraction in part of the site for the IWMMF); and sites A3 and A4 which were granted permission in March 2015 and extraction is now operational in this area.

The site is set within a predominantly rural character area, consisting of arable crops in large fields, often without boundaries resulting in an open landscape. West of the site is a 48m (above natural ground level) radar mast positioned next to Hangar No. 1, approximately 370m west of the site. The landform around the site forms a flat plateau at about 50m AOD, although the restored minerals workings to the north are at a lower level. There are limited elevated viewpoints from which to oversee the site, but there are some views from higher ground to the north east.

The nearest residential properties not including Woodhouse Farm (not occupied), include The Lodge and Allshots Farm located to the east of the site at 400m and 450m respectively from the proposed waste management facility. To the north east on Cuthedge Lane lies Haywards 950m from the proposed waste management facility, Deeks Cottage at 860m and Herron's Farm at 720m from the proposed waste management facility and 460m from the site access road. To the west of the site on Sheepcotes Lane lies Sheepcotes Farm 470m from the site boundary, Gosling's Cottage at 900m from the site boundary, Gosling's Farm 900m north west of the site boundary, Goslings Barn 880m from the site boundary and Greenpastures 470m north west of the site boundary. Properties to the southwest within Silver End village lie over 1km from the site boundary. Parkgate Farm lies south of the site approximately 1km from the site boundary. 200m to the east of the haul road lies Bradwell Hall.

The permitted access route to the site would share the existing access on the A120 and the access road currently used to access Bradwell Quarry. The access route crosses the River Blackwater by two bailey style bridges and crosses Church Road and Ash Lane (a Protected Lane as defined in Braintree District Local Plan Review 2005 - BDLPR). The access road is two way from the A120 to Church Road, then single lane with passing bays between Church Road and Ash Lane and then two way south of Ash Lane. The crossing points on Church Road and Ash Lane are both single lane width only.

Apart from the access road the land comprising the subject application site has no designations within the BDLPR.

There are three County Wildlife Sites within 3 km of the site at Maxeys Spring, Storeys Wood and Blackwater Plantation.

There are seven Grade II Listed properties in the vicinity of the site, including, Allshots Farm (400m away) and Sheepcotes Farm (470m away) located to the east

and west of the airfield respectively. To the south west Bower Hall (1.2km away) and to the south east Porter's Farm (1.3km away) and to the north west Goslings Farm (900m away), to the north east Curd Hall (1.3km away) and finally to the east of the haul road Bradwell Hall (200m away from haul road).

Three footpaths (FP's 19, 57 (Essex Way), 58) are crossed by the existing quarry access road and the extended access road would cross the FP35. There is also a public footpath No. 8 routed through the eastern part of Woodhouse Farm complex.

3. PROPOSAL

The current application includes 2 main elements namely:

- I. To amend the permitted plans for the IWWMF (as set out in Condition 2). The main changes arising from this are a slightly reduced building size and change to the size and capacity of the different waste processes forming the IWWMF.
- II. To discharge a number of the pre-commencement conditions attached to ESS/55/14/BTE. The discharge of the conditions has been submitted with the application as the details submitted take account of the changes proposed as amendments to permitted drawings approved under Condition 2.

Amendments to condition 2 of ESS/55/14/BTE

With respect to the amendment of details the application seeks to amend the drawings set out within condition 2 of the planning permission, which propose changes in the physical layout and size of the buildings and plant, and changes the capacities of the various waste of the IWWMF.

The changes in the proposed capacities of the different IWWMF processes are set out below:

Process	Previous tpa	Proposed tpa
Materials recycling facility (MRF)	287,500	300,000
Mechanical Biological Treatment (MBT)	250,000	170,000
Anaerobic digestion (AD)	85,000	30,000
Combined Heat & Power (CHP)	360,000	595,000
De-ink paper pulp plant	360,000	170,000
Total	1,342,500	1,265,000

The total tonnage of waste and waste paper to be imported to the site is not proposed to be changed; this is controlled by condition at 853,000 tonnes per annum. Some of the waste materials delivered to the site are likely to go through more than process, thus the totals above exceed the maximum input figure. For example the waste material that would go through the MBT process would also go through the MRF (to recover recyclables) and the residue would be RDF for use in the CHP plant.

Only an indicative internal and external layout for the IWMF is provided within the application, the detail of the plant is required to be approved by condition prior to installation. The planning permission was conditioned in this way as the exact detail of the plant would not be known until completion of the Environmental Permitting process administered by the Environment Agency.

The MRF contained within the main building would consist of two process lines; one to recover recyclate from the output of the MBT, giving the last opportunity to recover recyclates, the other to deal with C & I waste which had not been subject to pre-sorting prior to receipt at the IWMF. This is not dissimilar to what could happen under the original permission.

In the original proposals sludges generated by the de-ink paper plant were to be used as fuel within the CHP. However the clay materials separated from these sludges are now proposed to be exported from the site and used as soil conditioner.

Extracts from the previously approved and proposed layouts earlier in this report show the overall layout of the permitted facility and the proposed amendments. A comparison of the cross sections for both the permitted and the indicative internal layout of the main building are set out in Appendix B. All submitted drawings and supporting information can be viewed at www.essex.gov.uk/viewplanning. The physical changes to structures and buildings and the location of various elements of the IWMF are described and summarised below:

Structure	Permitted	Proposed
<u>Main facility building</u>		
Length at longest point	298m	262m
Length at shortest point	254m	224m
Width at front	218m	204m
Width at rear	203m	188m
Roof design	2 arches	Unchanged
Max height of arched roofs	60.75m AOD	Unchanged
Base height north end	35m AOD	Unchanged
Base height south end	33m & 30m AOD	35m and 30m AOD
MRF location	Within the main building	Unchanged
MBT location	Within the main building	Unchanged
Waste paper storage and marketed-inked paper pulp (MDIP) plant	Within the main building	Unchanged
<u>CHP Plant</u>		
Boiler lines	4	2
Height south section	54m AOD	60.75m AOD
Height north section	60.75m AOD	Unchanged
AD Tanks	Located to the rear of the building 63m AOD	Located within the main building with the gasometer tank to rear of main

		building height 59.6m AOD
Waste Water Treatment building	Located rear of main building below boilers 40m x 72m x 21m	Contained within main building
<u>RDF bunker</u> Location	Mainly with main building 9m AOD	Within main building 18m AOD
Base depth		
Retaining structures to void	Vertical concrete walls	Reinforced slopes (soil nailed walls)
<u>Upper Lagoon</u> Area Capacity	1.6ha 90,000m ³	1ha 25,00m ³
New Field Lagoon (outside site) Max capacity	750,000m ³	726,000m ³
Access road around the perimeter of main building of the IWMF	Height 33 – 40m AOD	Height 35m -30m AOD

The permitted IWMF includes extending the existing access road from the mineral processing area of Bradwell Quarry to the site of the IWMF. The permitted IWMF includes improving the crossing points with Church Road and Ash Lane, such as improved surfacing, lining, signing and traffic calming. The permitted IWMF also includes making the section of existing access road between Church Road and Ash Lane, which is currently single lane with passing places two lane, with the crossing points remaining single lane. There are no other changes to the access road as part of this application, except for some minor changes. The minor changes include a slight horizontal and vertical realignment of the access road near the IWMF itself and a change in levels of the access road that passes around the buildings and plant of the IWMF.

The application proposes modifications to the locations of doors into the main building. Originally two doors were located on the front of building, but circulation of vehicles as permitted meant that vehicle entrance and exits to the building were located on the sides of the buildings. The indicative revised internal layout for the main building proposes four doors on the front of the building as well doors on the sides of the building with vehicles utilising these front doors as part of the circulation of vehicles through and around the facility.

The permitted IWMF envisaged that the water required for the facility would be stored within Upper Lagoon (within the site north of the building) fed from New Field Lagoon (outside the site and formed as part of the mineral restoration). The Upper Lagoon would be used to collect all surface water from the facility i.e. from roofs and would be used to store water collected from the waste processes which would have been previously treated in a Waste Water Treatment Plant on site. Surface water from the surrounding agricultural land would feed New Field Lagoon and water would be extracted from New Field Lagoon as needed. It was anticipated that these supplies would supply much of the facility with water, but would be supplemented with water from an abstraction point or from mains water.

The current application has amended the water management to the facility. The size of Upper Lagoon has been reduced and New Field Lagoon is a similar size but the shape has been amended as permitted under the restoration scheme for Bradwell Quarry. In developing the detail of the facility, the paper pulp technology has been amended and a greater volume of water is required, to achieve the high quality recycled paper pulp. Thus the proposals include utilisation of an existing abstraction licence which allows abstraction of water from the River Blackwater. The licence is subject to both volume and time of year limitations as well as their needing to be a minimum flow within the river for abstraction to be permitted. The pipework and abstraction point needed to utilise this water supply do not form part of the application, but the amended/updated Environmental Statement (ES) considers the Environmental Impacts of the likely route of the pipework. The capacity within Upper Lagoon and New Field Lagoon would enable water to be abstracted and stored such that should there be periods of drought, there would still be adequate water to supply the facility. Water would be treated on site such that water would be recirculated through the lagoons with no need for a discharge from the facility.

The CHP, when initially proposed as part of the planning application envisaged 4 boiler lines at 90,000tpa (total 360,000tpa). The evidence submitted at the Public Inquiry envisaged 3 lines and this has now been reduced 2 and the footprint of the CHP reduced from 12,200m² to 11,200m².

The amount of electricity to be generated at the facility has changed due to the change in size of capacities, in particular the capacity of the CHP. Under the permitted scheme the combined output of the AD and CHP facility was 36-43 MW. About half the power would have been used on site such that it was anticipated that 21MW could have been exported to the National Grid. The combined electrical output of the AD and CHP under the amended proposals would be approximately 50MW, the majority produced by the CHP. Power would be used on site such that approximately 28MW would be available for export to the National Grid, an increase of 9MW.

In order to export electricity to the National Grid there is likely to be an underground cable to the sub-station near Galleys Corner, south east of Braintree. This cable does not form part of the planning application but the environmental impacts of the likely route, which mainly follows the route of the access road and existing highways, has been assessed as part of the ES. The laying of the cable would likely be permitted development by the electricity statutory undertaker. There would also be need for pipework to enable abstraction of water from the River Blackwater. Once again the pipework does not form part of the application, but the Environment Impacts have been considered.

The height of the CHP stack (85m AOD i.e. 35m above surrounding natural ground levels) is not proposed to be changed.

The application does not propose changes to the maximum number of HGV movements (404 daily movements 202 in 202 out) Monday to Friday and (202 daily movements 101 in 101 out) Saturdays. However with a change in capacities of the

various elements of the IWMF, the resulting the HGV movements and payloads associated with the different processes have changed (i.e. CHP, MDIP, WWTP consumables and sludge from the MDIP). Taking account of these changes It has been demonstrated that the IWMF could still be operated within the permitted HGV limits. A summary of the previous and proposed HGV movements associated with each of the different elements of the IWMF are set out in Appendix C

The permitted hours for construction and subsequent operation of the IWMF are also not proposed to be changed. During the construction period of 18 to 24 months the hours of operation would be 07:00 to 19:00 seven days a week. The permitted hours of operation for the receipt of incoming waste and departure of outgoing recycled, composted materials, ash and residues etc. are 07:00 to 18:30 Monday to Friday and 07:00 to 13:00 Saturday with no normal deliveries on Sundays, Bank and Public Holidays. The permitted hours also allow potential deliveries from ECCs Waste Disposal Authority (WDA) outside of these hours. Due to the continuous operational nature of the waste treatment processes, the waste management facility would operate on a 24 hour basis but this would not involve external activity for large scale plant or HGV movements outside the normal operating hours for the receipt of waste.

The proposals continue to include the restoration of Woodhouse Farm buildings with their use as an education visitor centre, with space for a heritage area for the WWII airfield. The applicant as part of the current application has offered to provide the role of an education/waste minimisation officer to be based at the Rivenhall site.

Submission of details required by Pre- Commencement Conditions

Several of the conditions of planning permission ESS/15/14/BTE require the submission of details prior to commencement of development. Some of the details required are affected by the changes proposed under condition 2 and therefore have been submitted as part of the application, such that if the changes proposed under condition 2 are found to be acceptable the details submitted with respect to conditions are relevant to the revised permission.

The list below gives the condition numbers from planning permission ESS/55/14/BTE and the subject matter of the details submitted to discharge the conditions

- 6 - Access road, cross over points
- 13 - Signage, Telecommunications & Lighting at Woodhouse Farm complex,
- 14 - Stack design and finishes,
- 15 - Design details and construction materials
- 17 - Management plan for the CHP,
- 18 - Green roof,
- 20 - Construction compounds, parking of vehicles,
- 22 - Foul water management,
- 23 - Surface water drainage and ground water management,
- 24 - Groundwater monitoring,
- 37 - Signs on access road at footpath crossings,

- 43 - Lighting scheme during construction,
- 45 - Phasing scheme for access road, retaining wall and mineral extraction,
- 50 - Fencing – temporary and permanent,
- 53 - Ecological survey update,
- 54 - Habitat Management Plan update,
- 57 - Landscaping, bunding and planting,
- 59 - Trees, shrubs and hedgerows – retention and protection,
- 60 - Tree management and watering adjacent to retaining wall,
- 61 - Woodhouse Farm parking and landscaping,
- 62 - Traffic calming measures at River Blackwater for otters and voles and
- 63 - Access road crossing points including lining and signing

The majority of the information is submitted in plan form and therefore not described in detail here. All drawings and details can be viewed at www.essex.gov.uk/viewplanning

The application was supported by the original Environmental Statement (ES) submitted in 2008 with additional information to update and take account of the proposed changes. Further information to support the ES was also required and submitted. The further information clarified the different assessments that have been relied upon to make updates to the original ES. The further information also considered the cumulative impacts of the development with any other relevant developments. In doing so it assessed the environmental impact of the pipework that would be required to link the site to the water abstraction point and the impact of potential discharge from the site. The further information also assessed the cabling route that would be required to enable export of surplus electricity to the National Grid. However, while this enables the Cumulative Environmental Impact of the cable/pipework to be considered, the application, if granted, would not give consent for the route of the pipework or the electricity cable.

4. POLICIES

The following policies of the [Essex and Southend Waste Local Plan](#) (WLP) adopted 2001, [Mineral Local Plan](#) (MLP) adopted 2014, the [Braintree District Council Local Development Framework Core Strategy](#) 2011 (BCS) and [Braintree District Local Plan Review](#) 2005 (BDLPR) provide the development framework for this application. The following policies are of relevance to this application:

	<u>WLP</u>	<u>MLP</u>	<u>BCS</u>	<u>BDLPR</u>
Waste strategy	W3A			
Receipt of Essex wastes only	W3C			
Flooding and surface water	W4A			
Surface & ground water	W4B			
Highways	W4C			
Composting within buildings	W7A			
Support for anaerobic digestion and composting	W7C			
Energy from waste incineration	W7G			
Preferred locations for waste	W8A			

management				
Development control criteria	W10E			
Hours of working	W10F			
Safeguarding/improvements to Rights of Way	W10G			
Preferred and reserve sites for sand and gravel extraction		P1		
Presumption in favour of sustainable development/ Sustainable development locations		S1		
Protecting and enhancing the environment and local amenity		S10		
Access and transportation		S11		
Mineral site restoration and afteruse		S12		
Development management criteria		DM1		
Planning conditions and legal agreements		DM2		
Primary processing plant		DM3		
Countryside			CS5	
Promoting accessibility for all			CS6	
Natural Environment and Biodiversity			CS8	
Built and Historic Environment			CS9	
Industrial & Environmental Standards				RLP 36
Transport Assessments				RLP 54
Pollution control				RLP 62
Air quality				RLP 63
Contaminated land				RLP 64
External Lighting				RLP 65
Water supply and land drainage				RLP 71
Water quality				RLP 72
Landscape Features and Habitats				RLP 80
Trees, Woodland, Grasslands and Hedgerows				RLP 81
Protected species				RLP 84
Rivers corridors				RLP 86
Protected Lanes				RLP 87
Layout and design of development				RLP 90
Alterations, extensions and changes of use to Listed Buildings and their settings				RLP 100
Archaeological Evaluation				RLP 105
Archaeological Excavation and Monitoring				RLP 106

The National Planning Policy Framework (NPPF) was published on 27 March 2012 and sets out the Government's planning policies for England and how these are expected to be applied. The NPPF highlights that the purpose of the planning system is to contribute to the achievement of sustainable development. It goes on to state that there are three dimensions to sustainable development: economic, social and environmental. The NPPF places a presumption in favour of sustainable development. However, paragraph 11 states that planning law requires that applications for planning permission must be determined in

accordance with the development plan unless material considerations indicate otherwise.

For decision-taking the NPPF states that this means; approving development proposals that accord with the development plan without delay; and where the development plan is absent, silent or relevant policies are out-of-date, granting permission unless any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in this NPPF taken as a whole; or specific policies in this NPPF indicate development should be restricted.

The NPPF combined and streamlined all planning policy except for waste. Planning policy with respect to waste is set out in the National Planning Policy for Waste (NPPW published on 16 October 2014). Additionally the National Waste Management Plan for England (NWMPE) is the overarching National Plan for Waste Management is a material consideration in planning decisions.

Paragraph 215 of the Framework states that due weight should be given to relevant policies in existing plans according to their degree of consistency with this Framework (the closer the policies in the plan to the policies in the Framework, the greater the weight that may be given). It is considered this is applicable to the WLP, BCS and BLP.

With regard to updates/replacements or additions to the above, the Framework (Annex 1, paragraph 216) states from the day of publication, decision-takers may also give weight to relevant policies in emerging plans according to:

- The stage of preparation of the emerging plan (the more advanced the preparation, the greater the weight that may be given);
- The extent to which there are unresolved objections to relevant policies (the less significant the unresolved objections, the greater the weight that may be given), and;
- The degree of consistency of the relevant policies in the emerging plan to the policies in this Framework (the closer the policies in the emerging plan to the policies in the Framework, the greater the weight that may be given).

The WLP 2001 is not considered up-to-date however the overarching principles of the Waste Hierarchy and the Proximity Principle do form part of its core emphasis. The Waste Planning Authority (WPA) has recently prepared a Pre-Submission draft Replacement Waste Local Plan (RWLP) with public engagement anticipated in March 2016. The document is supported by an evidence base including The Waste Capacity Gap Report of 2014, an Addendum to this document published in 2015 and a further update which is anticipated to be published shortly. The RWLP process has also considered a number of potential sites for waste management and suggested preferred sites on the basis of selection criteria seeking to give rise to the least environmental impact. None of these documents have been subject to an Examination in Public and therefore can only be given limited weight, but do provide the best information available as to waste arisings and capacities required for the Essex & Southend in the future.

Braintree District Council originally intended to create a Local Development Framework which it was envisaged would supersede the Local Plan Review in its entirety. In this regard, the BCS was adopted on 19 September 2011 and it was anticipated that the remaining BLP policies would be replaced by those to be contained in a Site Allocations and Development Management Plan. At a Braintree District Council meeting on 30 June 2014 it was however resolved not to proceed with the Draft Site Allocation and Development Management Plan. Work has now instead commenced on a new Local Plan, which will set out the Council's strategy for future development and growth up to 2033. The new Local Plan will ultimately replace the BLP and BCS however at the current time it is not considered is at a sufficient stage to have significant weight in the determination of this application.

5. CONSULTATIONS

The application has been subject to two periods of consultation in August 2015 and January 2016. The responses from both consultations are set out below. Where specific comments were provided with respect to pre-commencement conditions these are identified.

BRAINTREE DISTRICT COUNCIL: Object on the following grounds:

- It appears to be the case that the implementation of the IWMF has been compromised by a combination of the economic downturn and the opening of the Courtauld Road facility. As a result of these factors its planned function has shifted from being a facility designed to treat a mix of Municipal Solid Waste (MSW), dry recyclables, green waste, with the input of Solid Recovered Fuel (SRF) being a relatively small element (87,500 tpa), to a facility that will focus on Commercial & Industrial (C & I) waste and making use of an evidently expanding supply of SRF which is currently being exported from the Courtauld Road facility, and no longer has the value it was expected to have when the IWMF was approved. In some ways, SRF seems to represent the new lowest rung of the waste hierarchy now that much less waste is landfilled. Also, the facility would treat much less green waste and much less paper and card for pulping.
- The District Council acknowledge that the appeal Inspector accepted the need for flexibility in the integrated processes within the IWMF and did not set maxima or minima for individual elements, it is also clear that weight was attached to the extent to which the different elements interacted and drove treatment up the waste hierarchy. Now that the proposals show a dramatic drop in the volume of C & I paper to be recycled there must equally be a reduction in the extent to which the Combined Heat and Power (CHP) supports the paper pulping function. In this respect, and combined with the reduction in green waste recycling/ recovery through Anaerobic Digestion, there would appear to be a down-grading of its status as a facility that moves waste treatment up the waste hierarchy.
- Given the doubts that existed at the appeal stage about the ability to source paper and card (and the market for the de-inked paper) and the fact that the volume to be processed is now to be so much less, the need for the scale of CHP must be reduced as well. This brings into doubt the justification for the mix of treatment now proposed in the context of waste policy.

- It is noted that the policy context in which such proposals are considered has also changed significantly since the appeal decision in 2009. The saved policies of the Essex and Southend Waste Local Plan (WLP) remain extant, but are considered somewhat out of date in line with relevant NPPF guidance. In the absence of up to date waste local plan policies, significant weight is given to the National Waste Management Plan for England (NWMP) and National Planning Policy for Waste (NPPW). Relevant saved policies of the Braintree District Local Plan Review (BDLPR) remain extant. The objectives of policy remain that of promoting the sustainable management of waste in accordance with the waste hierarchy, without giving rise to unacceptable adverse impact on the environment or local amenity.
- In view of all of the above factors, the District Council expresses serious reservations about the County Council's decision to consider such a significant change to the waste treatment mix proposed for the IWMP through the Section 73 application route as these changes relate to the fundamental justification and needs case upon which permission was sought and granted. With a significant change to the anticipated treatment mix, the needs case and justification need to be robustly tested in the context of prevailing policy and circumstances.

ENVIRONMENT AGENCY:

Variation of Condition 2 (application details): No objection. Consider that the proposed modifications to the building size, retaining wall design and realignment of the access road do not appear to have any material impacts that would lead them to alter any advice given on planning matters in their earlier comments on the approved integrated waste management facility. No comments to make on the changes to the various new drawings submitted for the purpose of this application.

Condition 14 (stack design): No specific comments on the discharge of this condition.

Condition 17 (Management plan for stack plume): No objection: Air dispersion modelling will need to be submitted in support of an application for an Environmental Permit. It will be assessed along with other factors such as energy efficiency which can impact on the visibility of the plume. Will however take into account the requirement of the planning permission to ensure there is no visible plume from the stack. We have no other comments on this matter in terms of planning.

Conditions 22 (Foul water management): No objection. It is understood foul water from offices etc would be managed using Klaargesters, the output from which would be removed from site.

Condition 23 (Surface water and groundwater management): No objection. Initially raised some concerns with respect to the use of groundwater as part of the water supply which would require an abstraction licence. Also that the water balance calculations for the closed loop water system, were based on an average year and did not take account of the fact that abstraction using the existing abstraction licence from the River Blackwater is subject to restrictions and it might not be possible to be used in all years. Additional information was provided by the

applicant as to the management of groundwater within the excavation and water balance calculations provided to demonstrate that the proposed closed loop system utilising the existing abstraction would be adequate to provide adequate water, taking into account potential draught years, resolving the concerns.

Condition 24 (Groundwater monitoring): No objection. Initially raised concerns that the proposed the groundwater monitoring scheme did not include monitoring of the quality of ground water or make provision for monitoring prior to commencement. But, additional information was provided by the applicant confirming the water quality analysis to be undertaken and that some groundwater monitoring data is already available, which would provide an adequate baseline, resolving these concerns.

NATURAL ENGLAND: No comments to make

HISTORIC ENGLAND: No comments to make as no Listed Building of Grade I or II* are affected by the proposals.

HIGHWAYS ENGLAND: No objection

NATIONAL PLANNING CASE WORK UNIT: No comments received

PUBLIC HEALTH: No comments received

FIRE & RESCUE: No objection, further details would be required as part of building regulations.

THE COMMUNITY GROUP (Stop the Incinerator): Object on the following grounds:

- Application should not have been accepted as a variation, a new application should have been required.
- Incinerator is 65% larger with consequent increase in air pollution and need to export ash
- Height of stack still not clear
- The original intention of a closed loop relationship between the various types of waste processing is further compromised by paper sludge no longer being used as fuel and instead being exported by road
- Also concerned there might be road access via Woodhouse Lane

ESSEX WILDLIFE TRUST: No comments received.

RSPB: No comments received

ESSEX RAMBLERS:

Condition 2: Object on the grounds the application did not adequately show the location of existing public rights of way (PRoW) and thus does not show their interaction with the access road or how FP8, which passes through Woodhouse Farm Complex might be affected.

Comment: The drawings have been amended to include the locations of PRoW.

Condition 6: Object on the basis that insufficient detail had been provided of the proposed crossing points with access road and that the access road route would appear to be contiguous with the access road and in fact the routes of FP 56 and FP 57 are not on their definitive map routes.

Comment: Additional detail has been supplied for each crossing point and a separate PRow diversion application has been made for the routes of FP56 and FP 57 to ensure the definitive routes are those on the ground. The need for this diversion application relates to an historical situation not directly related to the IWMF proposals or the current planning application.

Condition 57: Express concern that the drawings do not show a gate to prevent access from Woodhouse Lane to the site.

Comment: The drawings have been amended to show a gate at the exit to Woodhouse Farm. A gate has been retained in case of the need for emergency access.

ESSEX BRIDLEWAY ASSOCIATION: No comments received

HIGHWAY AUTHORITY: No objection. From a highway and transportation perspective the impact of the proposal is acceptable subject to all previous highway related obligations and planning conditions relating to the construction of an Integrated Waste Management facility at Rivenhall Airfield being carried forward to planning application ESS/34/15/BTE.

The Highway Authority acknowledges that the applicant has requested variation of the timing of the highway works and payment of highway related contributions contained within the S106. The Highway Authority is satisfied that these changes are appropriate and are required to reflect changes in circumstances that have occurred since the original S106 was drafted.

HIGHWAY AUTHORITY (Public Rights of Way): No comments received

COUNTY COUNCIL'S NOISE CONSULTANT – No objection. The noise assessment demonstrates the amended proposals could be undertaken in accordance with the existing maximum noise limits. However, an updated noise assessment would be required once the details of plant have been confirmed.

COUNTY COUNCIL'S AIR QUALITY CONSULTANT: Condition 17 (Management of visible plume) No objection. The submitted management would indicate that based on previous weather conditions there would have been one event when the plume would have been visible, but considers there should be a requirement to review the management plan, for visual plume monitoring and an action plan to record and respond to any occurrence of visible plume during operation.

Comment: The applicant subsequently submitted a management plan which addressed the above matters and was acceptable to the County's Air Quality Consultant.

ECC AS WASTE DISPOSAL AUTHORITY : No comments received

LEAD LOCAL FLOOD AUTHORITY: No objection

PLACE SERVICES (Ecology)

Condition 53 & 54 (Ecological survey update & Habitat Management Plan update): No objection. The general quality of these documents is noted and welcomed. As well as the relative longevity through the Section 106 agreement. Monitoring will be provided in the annual reports. It should be sufficient to demonstrate that all of the objectives in the Management Plan have been reached.

Some confusion exists as to nature of material to be used as part of the green roof.

Comment: Different substrates would be used below the growing green roof matting. Crushed concrete originally proposed to create habitats on the roof is now proposed to be used to create habitats on the sloping retaining walls.

Bats are known to roost in the Woodhouse Farm buildings and adjacent trees. A condition should be imposed requiring no works to Woodhouse Farm buildings until a licence has been obtained from Natural England.

PLACE SERVICES (Trees): No objection

PLACE SERVICES (Urban Design): No objection, subject to the window frames being grey.

Comment: The proposals have been amended to include grey window frames

PLACE SERVICES (Landscape): No objection

PLACE SERVICES (Historic Environment): No objection

PLACE SERVICES (Historic Buildings):

Condition 2: No objection

Condition 13 (signage, telecommunications and lighting at the Woodhouse Farm complex): No objection

Condition 61 (landscaping Woodhouse Farm complex): No objection

BRADWELL PARISH COUNCIL: Objects with particular reference as follows;

- Transport, while the number of vehicle movements in and out of the site will probably not exceed that allowed, there appears to be significant unnecessary movement of waste around Essex in order to maximise the use of ECC owned waste treatment facilities.

Comment: LACW is managed by ECC's Waste Disposal Authority. LACW is either bulked up at waste transfer stations or taken directly to the waste management facility at Tovi Eco Park, Courtauld Road, Basildon operated by Abaser Balfour Betty. The WDA has a contract for waste to be dealt with at Tovi Eco Park until 2040 and thus untreated LACW would not be available for importation at the Rivenhall IWMF – See appraisal for more detail.

- While the input volumes of waste remain within the approved levels, there is no mention of output volumes or the nature of output emissions/gases. The input volumes to the CHP have increased by 22-65% and the nature of the material which is being input has changed. Without the technical information as to nature of the inputs and emission volumes the Parish Council are not able to comment, but the total volume of output gases/emissions will not have gone down.

KELVEDON PARISH COUNCIL: Object on the following grounds

Firmly of the view that more variations are being requested than are reasonable without a whole new planning application being presented. This further variation represents further planning creep which has been allowed by ECC since 2010.

The application lacks clarity & details in particular:

a) The nature of the site seems to have changed from a reprocessing site into a full blown incineration plant that was not allowed in the original planning permission and this could become one of the 10 biggest incinerators in the UK.

b) Much of the supporting literature dates back to 2008 and relates to an entirely different situation/market conditions and/or application and thence should be discounted or a new full application made.

c) The Parish Council would like to see the legal advice ECC has received – internal or from an independent Barrister?

d) No mention is made of ESS/24/14/BTE – the gravel that needs to be extracted to facilitate this site. Will the site hover above the ground or nestle into the landscape?

Comment: The mineral required to be extracted to facilitate the IWMF was largely extracted as part of planning permission ESS/32/11/BTE for site A2.

Approximately 100,000 tonnes remain to be extracted as part of the IWMF development. Restoration of site A2 has commenced, such that it would be necessary to remove replaced overburden. This would either be exported from site or retained on site for restoration of other areas of Bradwell Quarry which is currently being applied for under planning application ESS/07/16/BTE).

e) The applicant has previously been refused their own entrance/exit on to the A120. What is the true level of lorry movements & how will local road networks cope with this extra volume of traffic?

Comment: The IWMF would utilise the existing access onto the A120 which would be shared with Bradwell Quarry. There is no intention for HGV traffic to utilise local roads and an obligation exists within a legal agreement to utilise only trunk or main roads

f) There has been no public consultation with the surrounding, expanding community – why not?

Comment: Consultation has been carried out in accordance with the adopted Statement of Community Involvement

g) No design details have ever been released covering filtration, stack height, downwind contamination, firefighting methodology, health risk, detection & sensing the effect on local amenities/footpaths.

h) Given the changing business conditions in the bulk waste industry and the creation of the Basildon (underutilised) IWMF, is there a social or business need for this plant?

i) Where is the detailed work outlining the social & historical impact on the surrounding community? Gent Fairhead have already let one historic building – Woodhouse Farm – fall into a perilous state.

j) We have seen no modelling by Gent Fairhead of the effect of noxious gases and/or dangerous heavy metals on surrounding areas.

Given all of these omissions the application needs to be turned down and a whole new & honest application made for what is effectively a new plant/works.

COGGESHALL PARISH COUNCIL (adjacent): Object on the following grounds:

1. The proposal is described as an “amendment” but would involve, we understand, a 60-65% increase in volume. This is a major development of an industrial incinerator, not an amendment to a local central heating plant.
2. It would have a significant and damaging effect on the environment and its residents – benzene gas, for example, one of the outputs, is toxic and would damage crops (the incinerator is set in arable land), people’s health, and the fabric of heritage and listed buildings in nearby Coggeshall, which is in the direction of the prevailing winds.
3. In a rural setting, a major incinerator of this kind would have an enormous and ugly visual impact and would be “over-bearing, out-of-scale and out of character”.
4. The proposal, especially when linked with the gravel extraction proposal (ref ESS/24/14/BTE), would dramatically increase traffic on the A120 with an untenable increase in heavy vehicle movements.
5. A number of important details are lacking in the application, such as the height of the stack, filtration methods, methane monitoring arrangements and gas cleaning processes.
6. Conditions - The application seeks to remove the consented drawings in condition 2 of ESS/55/14/BTE with the intention of both changing the internal layout of the plant and significantly altering the process balance.
7. Size and Scale -The Application is referred to as “minor” change to the plant, but includes: a major change to the water cycle of the plant, abstracting water from an area of Protected Drinking Water Supply namely the Blackwater (EA Source), discharge effluent into an area of nitrate vulnerable Zone in addition to the stack pollutants and discharge effluent into water into the Blackwater.
Comment: No discharge is proposed as part of the application see Section F of Appraisal.
8. The applicant proposes an increase the CHP from 360,000 tpa to 595,000 tpa. We object to this increase since it clearly reduces all the recycling elements from the consented plant to balance the increased burning capacity thereby increasing the outputs and pollutants NPPW
9. Planning inconsistencies the application states that more ‘additional and more detailed information will be provided post the planning deadlines’ raising significant uncertainty with regard to the final design and specification. Consequently we object to the development of this magnitude and do not support the commencement or construction/development with incomplete plans and specification yet to be agreed.
10. Usage There are now several new facilities that have been completed during the delay associated with this plant and as such there is underutilisation at these plants. Proposed facility will not recycle commercial wastes, only generate RDF. More residues would be exported off site than recycle.
11. Environmental Impact The variation of the facility now proposes that of the (increased) 863,700 tpa inputs, only 163,771 tpa would be exported as recycles.
12. Uncertainty as will remove all previously agreed internal processing details as set out in condition 2 and no correlation between this and the Environmental Agency permit application, which impacts on the stack height conditions such as ‘no visible’ plume ‘
13. The impact of pollutants on Historic buildings in Coggeshall.
14. Support the application being ‘called in’ in by the Secretary of State and subject of a fresh Public Inquiry.

RIVENHALL PARISH COUNCIL (adjacent): Object

- The application is seeking to significantly vary the nature of the plant – yet at the same time removing the previously set out internal processing detail and substituting this with "indicative" drawings.
- There have been various planning permissions on the site. It is not the role of the planning system to allow “planning creep” whereby a scheme is moved by stages to something substantially different to that originally consented.
- It is accepted that the external appearance of the plant is not proposed to change significantly (though the stack height remains uncertain), however the key matter in this application is the proposed major change in the function of the plant in the way it treats waste, which was of course a key consideration of the 2009 Inquiry and the Secretary of State’s decision.
- The applicant has already had over 5 years to submit details and apply for an Environmental Permit. He has been given an extra year to March 2016 by Essex County Council yet is appealing to the Planning Inspectorate for another year to 2017 – a matter on which the Parish Council has already commented.
- At this late stage, it is unacceptable to allow a significant change in the function of the plant through a Section 73 application. The effect of the application to change the process flow diagrams and remove internal layout detail covered by condition 2 is not a minor change, it is a fundamental change, as discussed in more detail below.
- Furthermore, the applicant has stated in the current application that yet more applications will be submitted, which just adds to the planning creep.
- The intensified emphasis on incineration and raises questions about the description that it is an "integrated facility" and the status as a claimed “Combined Heat and Power” (CHP) plant. That latter description was only ever based on using heat and steam from the incinerator to (internal) benefit of the paper pulping plant, not for any external benefit. Now the new application proposes almost halving the capacity of the paper pulping plant.
- It is clear that the application seeks to make way for a much larger incinerator capacity by reducing recycling elements of the facility and changing the balance of internal waste circulation/export from the plant.
- The calculation shown by the applicant relating to energy yield is not a material consideration. The consented facility had an incinerator/CHP capacity of 360ktpa, not over 400ktpa as claimed. The consent capacity was set out both in the process diagrams, the text and was related to the transport assessments.
- The paper pulping plant is now proposed in the new application to be reduced from 360ktpa to just 170ktpa, a reduction of 53%. The paper pulping plant was advanced by the applicant, and was key to the 2010 decision, as a justification for such a large plant, located as it is in the countryside.
- The AD (food composting) plant is proposed to be reduced from 85ktpa to just 30ktpa.
- The "eRCF" was proposed as a "closed loop" system where the paper pulping plant and incinerator (CHP) were closely linked. This proposal was used to justify the CHP designation. However, now not only is the

incinerator proposed to rely far more on imported RDF (337.5ktpa), the previous proposal to use sludge from the paper pulping plant to fuel the incinerator has been abandoned. It is now proposed to export the sludge (68ktpa) by road.

- So it is clear that in order to make the incinerator capacity much larger, recycling elements of the plant have been greatly reduced, so that the overall plant capacity stays within its previous planning limit on total tonnage inputs.
- The much larger incinerator also results in the export of ash by road more than doubling. With the additional export of paper pulp sludge, the "closed loop" scenario of the consented plant is now much weakened (see details below).
- The current application includes a helpful comparison of the consented haulage tonnages and that now proposed as set out in tables 1 and 2 of the Traffic Flow Review. This information confirms the sharp shift in emphasis of the plant away from an integrated facility with a significant recycling function, towards a plant dominated by the burning and disposal of waste.
- The consented plant flows in table 1 show that of the 853,500 tpa total inputs, 300,500 tpa is exported as recycled product – a conversion rate of 35%. The landfill and ash exports are shown as totalling 117,575 tpa, a conversion rate of 14%. [It is understood that the balance tonnage loss is due to drying, digestion and burning].
- The new proposal in table 2 shows that of the total inputs of 863,692 tpa (note this breaches condition 29 of the consent), 163,771 tpa is exported as recycled product – a conversion rate of just 19%, almost halving that of the original consent proposal. The landfill, ash and new element of exported sludge are shown as totalling 231,054 tpa, a conversion rate of 27%, almost double that of the original consented proposal.
- So now, the applicant proposes that the plant will export far more waste material than recycled product, whereas in the 2010 consent it was the other way round.
- The Government required Gent Fairhead to submit updated Environmental information as set out in the letter of 13th November 2015 in respect of the Appeal for another year on the consent. Gent Fairhead has already had 6 years to submit the required pre-commencement details and legal matters. The Parish Council supports the ECC decision to only allow one year up to March 2016 and not another year to 2017. Essex County Council also required this updated information for the S73 "variation" application.
- The letter to Gent Fairhead set out a requirement to see "easily accessible documents". The Parish Council is concerned that the Applicant/Appellant actually submitted another large body of information spread across numerous documents that did not meet that test – and also introduced yet more new matters that have not been considered before in the planning history of the site. The Parish Council notes that with the new information uploaded to the Essex County Council website, there are now 370

documents, for what is described as a minor “variation of conditions” application by the Applicant/Appellant.

- The new matters relate to the fact that Gent Fairhead now states an intention to use the River Blackwater for both major water abstraction and the discharge of effluent. This is set out in a number of the new documents, including maps showing pipeline routes. The document “Foreseeable Developments” (Jan 2016) states “The River Blackwater would be the primary source for industrial water use at the site”.
- The Parish Council would submit to ECC that the River Blackwater is an important water body, both in terms of water resources (agriculture and water transfer as Essex has a summer deficit) and for its habitats. It flows along the boundary of Rivenhall Parish (downstream of the proposed waste plant) and the Parish Council has always sought to protect the quality and setting of the river and its tributaries.
- The recently expired water abstraction permit for the site was strictly limited in volume and time of year. It did not support what is now proposed and the current planning consent does not either. The Inspector to the 2009 Inquiry, whose report informed the Secretary of State decision in March 2010, concluded that use of water from outside the plant would be "minimal" as the evidence submitted by Gent Fairhead stated that water would be derived largely from internal recycling and rainwater. There was never any discussion of discharge to the river then or until now. Nor has there been any consideration until now of long pipelines across the countryside to a new abstraction/discharge location on the river, as described by Gent Fairhead in the new information.
- The plant water cycle has been consistently, over a period of some 8 years now, been described as a “Closed Loop” system. But the Applicant/Appellant now states that the plant would use both the public water main and the river for industrial processes with effluent discharge to the river. It is not evident as to why this change is being proposed, nor why it was not made clear years ago, nor why it is necessary now given that the primary water user on the site, the paper pulping unit, is proposed to be reduced in capacity by over 50% in the S73 application as compared to the extant consent.
- The much more significant use of the River Blackwater would require submission to the Environment Agency of detailed reports and the Parish Council understands that this process would be lengthy. Yet whilst the new planning information describes the new proposal for water use, the Environmental Permit application currently before the EA for the facility specifically rules out discharge to the river. Therefore, this matter is being treated inconsistently by the Applicant/Appellant and it raises another layer of uncertainty regarding the plant as a whole, which would be a heavy user of water on a 24/7 basis.
- The Parish Council supports the view that the length of time, the

uncertainty, the complexity and the inconsistency that has built up surrounding this site points to the need for a refusal of the S73 application and should the developer wish to continue, a completely fresh (and concise and accessible) planning application, to be judged against current planning policies

SILVER END PARISH COUNCIL (adjacent): Object, on the following grounds

- Increased capacity of incinerator at a reduction of recycling capacity. Should promote recycling not incineration.
- Grave concern over lack of internal detail, relies on indicative drawings and cannot be adhered to. Trying to modify parts of inquiry findings in an ad hoc fashion therefore annulling the inquiry findings.
- Serious concerns that there are no details of chimney height and details of the impact of increased emissions.
- Access roads are included on the plans that were not approved by the Inspector, particularly that by the hanger at Sheepcotes Lane.
- Undermining the Inspector's decision as this is the second minor change, both of which have had significant effect, not minor. A new application should be made and taken before the Inspector if deemed appropriate.

FEERING PARISH COUNCIL (not adjacent): No objection, would hope that the abstraction of water from the River Blackwater during high flows might be stored at the IWMF lagoons to reduce the potential for flooding downstream.

CRESSING PARISH COUNCIL (not adjacent): Object on the following grounds

- Proposals would to be detrimental to our area
- The recycling element has been reduced and there a considerable increase in the burning of waste which will produce a more toxic exhaust.
- Increased burning of waste not only produces more harmful emissions but also creates more toxic ash. The ash has to be removed by road more frequently and thus creates more risk due to the accident potential of carrying these materials on rural roads.
- Also handling and loading of toxic ash creates a greater hazard and risk of accidental spillage.
- Cressing Parish will be downwind of the toxic plumes when the wind is blowing from the South East.
- The Human Health Risk Assessment appears to be flawed.
- The dispersion model has been over simplified and appears to bear little relation to the special and complex landscape, not taking account of local height variations or the shape of the arched roof.
- Higher number of vehicles could end up carrying highly toxic waste to transport it to landfill sites.
- Concerns about the possible detrimental effect on animals, residents and farmland in not only the immediate vicinity of the plant, but also outside of the 1 kilometre envelope.
- The stack height of 35m would appear to be highly unsuitable for purpose given the comparison to similar but smaller plants. For example, a much small incinerator at Ipswich was recently required by the Environment Agency to have a stack height of 81.5m.

- The changes proposed represent a fundamental change in use of the plant rather than a variation. The original application was the subject of a public inquiry and the amendments to the planning conditions are significant enough to warrant another public inquiry. Cressing Parish Council would therefore like to request an explanation of why this particular application is being handled as a variation and would strongly request that this is reconsidered.
- Concerned about the uncertainty regarding this plant and the “indicative” drawings amplify this uncertainty. The original purpose was for a balanced plant handling relatively local waste. Clearly if the application is approved, this would no longer be the case.
- It is also understood that no real world monitoring would be required which is also a huge concern given the uncertainty surrounding this plant.
- Would like assurance that the appropriate EU laws have been considered and taken account of.
- The traffic assessment assumes free flow of traffic on A120 and ignores the fact that there will be times when the traffic is stationary and vehicle will try to find alternative routes.
- Difficulty accessing the application details over the web and understanding the context of the vast number of documents submitted.
- There is confusion as to whether there would be a discharge from the facility or whether it would be a closed loop system. It is unclear where the 500 to 1500 tonnes of water per day would be supplied from
- Some drawings remain marked as indicative; surely they should be final at this stage.

LOCAL MEMBER – BRAINTREE – Braintree Eastern: Any comments received will be reported verbally

LOCAL MEMBER – BRAINTREE - Witham Northern: The following is a summary of the matters of concern raised (a full copy of the comments can be found at Appendix D):

- The site has gone through a series of planning applications and variations over several years but to date nothing has been developed.
- Concerned that application accepted as variation, when the changes are not minor.
- The S73 application seeks, along with other things, to remove the consented drawings in condition 2 of ESS/55/14/BTE with the intention of: changing the internal layout of the plant, significantly altering the process balance, and a slightly smaller plant footprint and related changes to the surrounding walls and access road.
- The application is supported by a large number of documents, which makes it difficult to understand and has caused confusion to Parishes and residents.

- Some drawings are labelled preliminary and indicative which gives rise to uncertainty and the detail won't be known until details are submitted under condition 19 later after commencement. Further uncertainty due to changes to the water management such that the plant might not be able to operate. And reference to alternative water management system, with possibility of a discharge to the river. Also the Environment Permit outcome could significantly influence the physical detail and process functions of the plant in respect of water. Concern that development could start without all details in place. Consider the Inspector did support flexibility, but in order to "ensure that high rates of recycling and EfW can co-exist".
- The applicants refer to the facility producing "green" and renewable" power, only the biodegradable fraction of waste can be classed as a fuel source for renewable energy.
- The permitted input capacity in respect of ESS/55/14/BTE is 853,500tpa. The S73 application seeks to increase this to 863,700tpa. The permitted incinerator/CHP capacity is 360,000tpa. The S73 application seeks to increase this to 595,000tpa, an increase of 65%. Incinerator is the dominant consideration with the applicants seeking to link the Rivenhall facility with the expected SRF outputs from Basildon.
- It is an issue of commercial procurement as to where the SRF from Basildon goes in the long term and it could go to other plants.
- To keep the overall "headroom" capacity similar to the extant consent, the S73 application proposes to reduce all the recycling elements, reducing the size of the paper pulp plant by more than half, AD reduction by 65%. The MRF seen as a processing line to produce RDF for the incinerator/CHP, recycling element is reduced.
- All these matters raise questions about the changed process flows in relation to the Waste Hierarchy and the need to move waste management up the Hierarchy, not down.
- The emphasis for the proposed facility at Rivenhall is much more towards handling commercial waste, why is there less of an emphasis on recycling. Would the Inspector still conclude the facility was moving waste management up the waste hierarchy and could maximise recycling.
- The paper plant has been halved will heat be wasted?
- The application documentation is confusing in that it also refers to potential for greater abstraction and discharge. The potential change is not explained and one considered by the Inspector in 2009 and reference is also made to the pipework that would be required. Greater water use could impact upon the ecology of the river and general supply of water.
- Strong local populations of wildlife have built up in the area, which could be

impacted upon noise and light pollution. Will the mitigation be adequate, particularly has the lighting be designed to minimise light pollution and impacts upon bats that have roosts at Woodhouse Farm and protect Rivenhall Airfield as a “Dark Skies” area.

- A key planning issue is the incinerator stack height and its impact upon the listed buildings at Woodhouse Farm. However the degree of harm to the setting of the listed buildings at Woodhouse farm cannot be known until the final stack height is known. Stacks at other similar facilities have been much higher
- Whilst control of emissions to air are largely an issue for the permitting process, information is supplied within the S73 application. Concern has been raised as to likely pollutants and the methodology of modelling with respect to the surrounding terrain.
- Condition submissions there is a vast amount of documentation, but noted that some drawings still refer to detail being submitted later, how can a condition be discharged if it is not the full detail.

6. REPRESENTATIONS

Eighteen properties were directly notified of the application. At the time of publication comments had been received from 108 representees (including Witham Town Council) some submitting more than one response. Some representees have raised their objections with Priti Patel MP who has forwarded their comments to the WPA for consideration as part of the application. 228 residents signed a petition. The petition objected to the application on the following grounds *“We object to the suggested increased use of the proposed incinerator which brings with it additional risk of pollution to the air we breathe. We also remain concerned at the proposed of more than 400 extra lorry ‘movements’ each day given the already dangerous driving conditions on a congested A120.”*

The comments raised by representees are set out in full in Appendix E The main issues raised by the responses are summarised below:

- Do not consider that the application should be considered as a variation to the original permission due the substantial changes, in particular the significant change in the CHP capacity and need to import additional water.
- “Planning creep” is being allowed through the various different applications.
- Concern that the planning application can be determined and implemented before the Environmental Permit has been determined by the Environment Agency.
- Concern that some details are only indicative and would be agreed later.
- Application should be subject of a further public inquiry.
- The delay in implementation of the development.
- The health impacts of the emissions from the CHP facility, particularly in view of its increased capacity.

- Do not consider the A120 has capacity to deal with existing traffic without adding additional traffic.
- Congestion or accidents on A120 will cause traffic to use alternatives routes using narrow roads and passing through villages.
- Concerned access would be gained from Woodhouse Lane.
- Impact of emissions on human health, which would be increased due to increase in CHP capacity.
- Concerned that the stack is too short when compared to other sites.
- Impacts of emissions & noise on flora and fauna.
- Impacts of emissions on surrounding farmland.
- Impacts of acid rain on buildings, particularly historic buildings.
- Need for the facility for Essex's waste.
- Concerned that the incinerator will discourage recycling, in particular reduction in size of AD, MBT and paper pulp plant.
- Concerns and confusion of the proposed water management system that might include discharge to the River Blackwater.
- Facility too close to residential properties and nearby villages.
- Facility would impact upon rural setting and ecology.
- Consultation not wide spread enough, too short a period was given for consultation and the number of documents overwhelming and difficult to access via the web.
- Stack will be visually intrusive.

7. APPRAISAL

The key matters and issues for consideration are:

- A. Nature/type of application
- B. Principle and Need for the IWMF and Acceptability of the Proposed Changes
- C. Height of the stack, Emissions & Health impacts
- D. Traffic & Highways
- E. Public Rights Of Way
- F. Water Environment
- G. Landscape and visual Impact
- H. Ecology
- I. Historic Environment & Archaeology
- J. Residential Impact – noise dust & odour
- K. Cumulative Impact
- L. Legal Agreement
- M. Commencement of Development

A NATURE/TYPE OF APPLICATION

The application has been submitted as a variation to the existing planning permission ESS/55/14/BTE. Considerable objection has been raised, including by Braintree District Council, residents and one of the Local Members that the application has been accepted as a variation to the existing planning permission, rather than a full planning application.

During pre-application discussions the WPA took legal advice as to whether the application could be accepted as a variation application as allowed for under section 73 of the Town & Country Planning Act 1990. While the size of the various elements of the waste management processes are proposed to be changed, (the most significant being the increase in the size of the CHP element of the application from 360,000tpa to 595,000tpa), the revised proposal is still within the original description of development. The planning conditions as imposed by the SoS in 2010 do not specify the size or give a maximum size for each of the waste management processes, only a maximum total waste annual tonnage to be imported, and the application does not seek to change this maximum limit. Drawings permitted under condition 2 included a flow chart which did state the likely throughputs and capacities of the various elements, however other conditions of the permission, namely condition 19 of the permission, also anticipated that the details of the plant would need to be agreed at a later date, when the exact plant and capacities were known.

The Inspector at the Public Inquiry in 2009 specifically looked at whether the facility had flexibility to respond to changing waste markets and new technologies. He stated:

Whilst each waste management process within the eRCF would benefit from its integration with others, there is sufficient capacity in each of the key processes to allow for variation thereby providing flexibility of use. Document GF/38 describes the flexibility of capacity which is inherent in each of the processes. The design of the MRF allows for upgrades in the eRCF's process which would meet potential changes in the type and composition of waste imported to the site.

And

A plant which is capable of dealing with large quantities of MSW and/or C&I waste (and in this case is combined with a specialised waste paper facility), provides considerable flexibility in terms of the type of waste that could be treated and the customers that could be served. It seems to me that such flexibility helps to maximise the economic viability of the project.

And

It seems to me that if a proposal is to be sustainable and economically viable in the long term, one of its attributes must be a degree of flexibility to accommodate future changes in waste arisings and in waste management techniques and practices.

The SoS in his decision letter stated:

As for the flexibility of the proposal, the Secretary of State agrees that its design and its multiple autonomous process lines would provide a reasonable and sufficient degree of flexibility to enable future changes in the composition of waste and the ways in which waste is managed to be accommodated

The development would be contained largely within the same envelope that was

previously permitted. The main two-arched building would be slightly smaller, however the CHP plant would be higher and bulkier to the rear of the building but would not be above the height of the building permitted as part of the original application. In addition the permitted larger AD plant required large tanks to be located to the rear of the building, the majority of these are proposed to be smaller and located within the main building reducing the bulk of structures to the south west to the rear of the building. The proposals would still involve pre-sorting (to remove recyclables) and pre-treatment of waste prior to its utilisation in the Combined Heat and Power Plant. The proposal would still use heat, steam and energy from the CHP to power the IWMF and in particular the steam to reprocess waste paper. However paper pulp waste was to be used as a fuel originally and is now proposed to be exported. It is still considered overall that there is integration between the different processes permitted by the SoS's decision.

It was therefore concluded that the application could be submitted as a variation application, as the SoS decision had permitted flexibility in the size of the various waste management processes and the proposed amended dimensions of the buildings and plant are not substantially different to those permitted i.e. the proposals are contained within the previously permitted envelope.

Objections have also been raised that the WPA has allowed "planning creep" through the various applications from that in 2006 with the eRCF through to the current application. The WPA has to determine the applications that have been submitted and must consider each application on its individual merits taking into account national and local policy and ensuring development does not give to adverse impact on the environment. The application for the IWMF was granted by the SoS and the SoS positively choose not to limit the capacities of the various elements of the IWMF to allow flexibility hence it is considered possible for the applicant to apply to vary the extant planning permission.

With respect to the determination of the application, the consideration of issues would be no different whether the application was a variation or a new application. Even if the application had been a new application, the existence of the planning permission for the IWMF would have been a material consideration in the determination process.

Concern has been raised as to the number of documents that the application, the ES and the ES update are made up of. In particular, that the amount of information and number of documents is over-whelming and that there have been difficulties viewing these over the web and understanding the context of each document. The application and supporting documents amount to several volumes. It is not possible for each volume to be uploaded to the web as a single document; it has to be broken down into smaller parts to enable the documents to be uploaded and to ensure the documents can be opened by the user. This does mean there are a lot of individual documents to review and it is appreciated that there is a lot of information to understand. While in this case there is considerable information for the public to view, it is still considered that the information being available on the web provides a greater opportunity for all to see.

Concern has been raised that some documents state "preliminary" or "indicative"

on them, the detail of plant is required to be submitted under condition 19 of the permission prior to installation. This allowed flexibility, as potentially plant type and location might have to change in response to changes in technology between determination of the original application and development of the IWMF and/or in response to requirements of the Environmental Permit. However, this has not prevented the WPA dealing with the discharge of details in relation to various other matters.

B PRINCIPLE AND NEED FOR THE IWMF AND ACCEPTABILITY OF THE PROPOSED CHANGES

Principle of the Integrated Waste Management Facility in this location

The principle of a waste management facility in this location was first established through the Waste Local Plan 2001 when a 6 ha site known as WM1 was allocated, which included the then existing airfield hangar. WM1 was allocated as a suitable site for a major waste management facility and through other policies of the WLP was considered suitable for AD (WLP policy W7C), MRF (WLP policy W7E) and incineration (W7G). The principle of a larger site (25.3ha), with a waste facility partly sunken below ground levels was first accepted when planning permission was granted for a Recycling and Composting Facility (ESS/38/06/BTE - this permission has subsequently expired). The application for the evolution Recycling and Composting Facility (eRCF), now referred to as the IWMF, was on the same footprint of ESS/38/06/BTE but changed the mix/size of the waste management processes on the site and extended these to include the CHP facility and the MDIP plant. The IWMF (ESS/37/08/BTE) planning permission issued by the SoS maintained the same size building as the first permission, but amended the nature and size of plant to the rear/south of the main building, which included the CHP plant. The current application is on the same footprint as the original permission and largely contained within the same envelope of space as that already granted. However, the CHP plant is physically bigger to the rear of the building, but remains no higher than the building. The facility continues to include a chimney at 85m AOD, although its position has changed marginally by about 17m. The visual and landscape impacts of the proposed physical changes will be considered later in the report.

The application for the IWMF was considered against the WLP 2001, the Regional Spatial Strategy (RSS) and Planning Policy Statement 10 (PPS10). The RSS has subsequently been abolished, the NPPF published and PPS10 now replaced with NPPW. In terms of locational criteria for waste management facilities, these have brought no significant changes. Of perhaps note is that the NPPF now does not require protection of the countryside for its own sake, only where there are particular designations. The NPPW objectives are the same as PPS10 including net self-sufficiency and the proximity principle seeking to locate waste facilities such that communities and businesses take more responsibility for their own waste, thereby reducing waste miles. The NPPW recognises "*that new facilities will need to serve catchment areas large enough to secure the economic viability of the plant*".

The NPPW locational criteria include consideration of the following factors,

protection of the water environment, landscape and visual impacts, nature conservation, conserving the historic environment, traffic and access, air emissions, including dust, odours and vermin and birds, noise, light and vibration, litter and potential land use conflict. All of these factors were considered by the WPA when making its resolution on the original IWMF application and were considered by the Inspector as part of the Public Inquiry and will be considered as part of this consideration of this application with respect to the changes that arise from the amendments proposed.

As part of the emerging Replacement Waste Local Plan the application site (25.3ha) has been assessed alongside many other sites as to its acceptability for waste management development. Within the Pre-Submission draft RWLP the site is identified as both a Strategic Site Allocation for both “Biological Waste Management” and “Other Waste Management”.

It is therefore considered that the principle of a waste management facility on the application site, including the physical scale of buildings, plant and stack is established due to the previous planning history, subject to the proposed amendments delivering a sustainable waste management facility and not giving rise to adverse environmental impacts.

Need and justification for proposed amended capacities

The applicant has justified the proposed changes to the capacity of the various elements of the IWMF on the basis that the available waste is now different to that available at the time of the determination of the application.

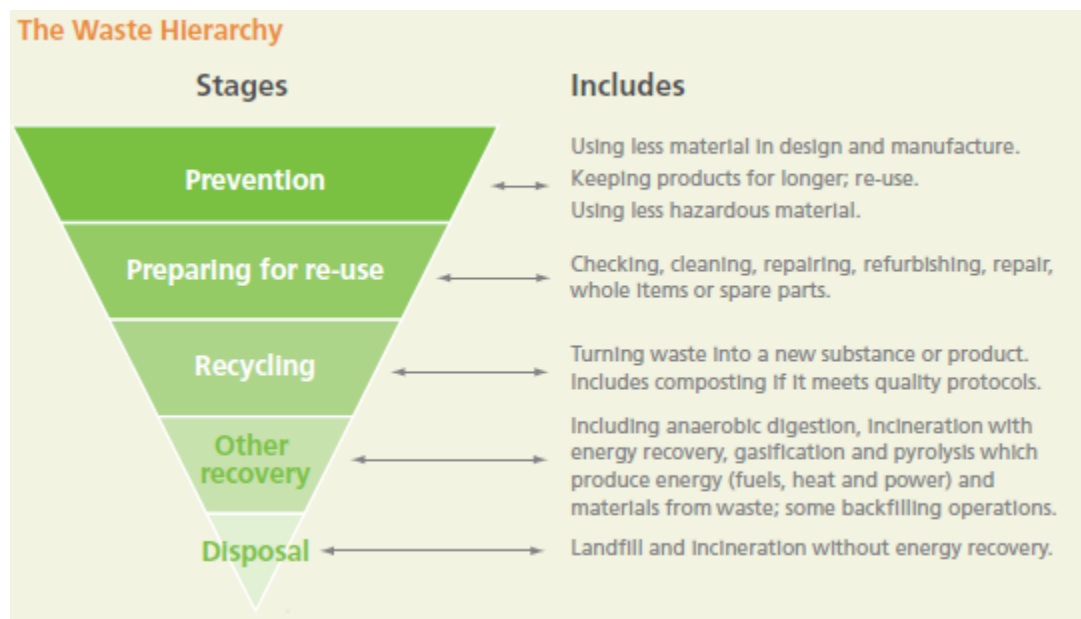
The existing planning permission was granted on the basis that the IWMF would deal with Local Authority Collected Waste (LACW) and/or Commercial and Industrial Waste (C & I).

Change in circumstances with respect to LACW since 2009

With respect to the availability of LACW, at the time of the Public Inquiry the Waste Disposal Authority were basing their Outline Business Case for a solution for the disposal of Essex’s LACW on the Rivenhall site. However, ultimately the WDA went for a single site solution, on a site over which the WDA had control at Courtauld Road, Basildon (now named Tovi Eco Park). A MBT facility is now operational, although still in its commissioning phase, and is operated under contract from the WDA by Urbaser Balfour Beatty. A series of waste transfer stations (some of which include MRFs) have been established across the County where waste is part sorted and then bulked up and transported to the MBT at Tovi Eco Park. The WDA contract with Urbaser Balfour Beatty is in place until 2040 (with an option to extend by 5 years). In addition to this contract, the WDA has contracts in place in the short-term to provide facilities for LACW biowaste (food and green waste) which do not involve the facilities permitted at the Rivenhall IWMF. The WDA is still considering longer-term solutions for LACW biowaste. Adequate facilities exist to recover LACW recyclates either through door step recycling collections or MRFs located with the waste transfer stations or at Tovi Eco Park.

The emerging (unpublished) evidence base for the Waste Local Plan

acknowledges that in terms of facilities for LACW there is adequate capacity currently to manage all LACW. However, the treatment of residual waste through the MBT at Tovi Eco Park produces approximately 200,000tpa Refuse Derived Fuel (RDF)/Solid Recovered Fuel (SRF). There is currently no operational facility within Essex or Southend that could utilise this material for the production of power, although there is capacity for the material to be landfilled. However, landfill is at the bottom of the Waste Hierarchy, while energy recovery through power generation is preferred to landfill.



Source: DEFRA Review of Waste Policy in England and Wales, 2011

As the WDA has contracted capacity to deal with all LACW for Essex & Southend, except for RDF and biowaste in the long-term, it is unlikely the Rivenhall IWMF would receive LACW unless there was a change in circumstances with respect to the existing contracts which the WDA have in place.

Hence it is anticipated the Rivenhall IWMF would mainly receive C & I waste and operate as a merchant waste facility. While not receiving LACW it must be remembered that LACW makes up only around 15% of all waste generated in Essex and Southend and while the WDA only needs to provide disposal facilities for LACW the WPA must make provision for treatment and disposal of all wastes within Essex & Southend as well as making some provision for London's waste.

Change in nature of C & I Waste since 2009

The applicant has therefore justified the change in capacities of the various waste processes on the likely availability of the C& I waste, since this is the waste the facility would cater for. The applicant has stated that there have been comparable changes with respect to C & I waste arisings as there have been with respect to the make-up of LACW. The impact of Landfill tax on C & I waste has been significant and positive. Landfill tax has risen from £8/tonne in 2007 to £82.50/tonne in 2015, which has resulted in all sizes of business, where practical, to minimise their waste generation and looking to recycle where possible. Waste operators dealing with C & I waste have also amended their practices rather than being transfer businesses taking waste to landfill; waste operators seek to sort and

recover recyclables and rather than disposing of residue to landfill, generating a RDF.

ECC as WPA has dealt with applications that support the applicant's statements, for example applications have been granted for waste recycling/transfer business such as, Colchester Skip Hire and Heard Environmental at Basildon. The WPA is also aware that many skip hire operators now as part of their businesses seek where possible to recover recyclables reducing the volume required for landfill. Thus the WPA has evidence to support the applicant's view that the treatment of C & I waste has changed. In addition the reduction in waste to landfill has also been evidenced through the slow down in completion of existing landfill, immediately partly to do with the recession, but also in part due to alternatives being found whether this be through, reduction, re-use, recycling or used as RDF. The reduction in inputs rates was part of the justification put forward by an operator recently with respect to the extension of time for Pitsea Landfill. The applicant states there are several waste transfer/recycling operators now produce an RDF which is being exported from Essex rather than the residue being landfilled.

In considering the changes in the capacities of the various elements of the IWMF, it must be remembered, that while the application was submitted on the basis of certain capacities for each facility, the SoS state did not impose conditions specifically stating what the capacities of each element of the IWMF was, ensuring there was flexibility for the facility to adapt to changes in technology and waste arisings. In addition it must be remembered the NPPW only requires the developer *"to demonstrate the quantitative or market need for new or enhanced waste management where the proposals are not consistent with an up to date Local Plan. In such cases, waste planning authorities should consider the extent to which the capacity of existing operational facilities would satisfy any identified need."* The WLP was adopted in 2001 and while it is acknowledged to be in need of updating and the new RWLP is in preparation, the principles of the waste hierarchy and the proximity principle remain at the heart of the WLP. It is therefore considered that there is not a strong case for the applicant to be required to fully justify the need for the change in capacities. However, the report will consider these issues as considerable objection has been raised as to the reduction in what are seen as the "recycling" elements of the IWMF and the increase in the incineration element i.e. the CHP.

The report considers the need for the proposed changed capacities for each element of the IWMF, taking account of existing operational capacities within Essex and Southend.

Anaerobic digestion

The original scheme was based on a capacity of 85,000 tonnes per year for the AD facility and this was and remains the need arising for LACW. However, this need has been met by the WDA via contracts which do not envisage the Rivenhall facility being utilised. Hence the AD capacity would be primarily for the treatment of C & I biowaste. The evidence base for the RWLP has estimated the tonnage of C & I biowaste on the basis of 13%¹ of all C & I waste being biowaste. This

¹ Source National Waste Management Plan for England 2013

percentage is based on a national figure so there is potential for local variation, but it is the best available and on which the RWLP has considered likely arisings within the emerging evidence base for RWLP (currently unpublished). Taking account of existing operational biowaste treatment facilities including windrow composting, AD and In-Vessel Composting (IVC), it is estimated up to as much as 339,000tpa by 2031/2 of C & I biowaste treatment capacity will be needed. Although emerging evidence would indicate that this may be an over estimate.

The IWMF has proposed a change in the size of the AD facility from 85,000tpa to 30,000tpa. The estimated arising figures would indicate that there is potential for a greater demand for biowaste treatment than would be met by the reduced AD facility at the IWMF. But nonetheless the capacity proposed by the IWMF would meet part of the estimated shortfall of capacity in C & I biowaste treatment. It is not necessary that this waste development meets all of the shortfall, but there is evidence that there is a need for the proposed AD facility. Central Government's recent change in financial support for AD facilities has also significantly changed the viability of AD facilities.

Biogas from the AD plant would be used to generate electricity on site, providing a renewable source of energy. The export of electricity from the site is discussed in more detail later.

Materials Recycling Facility & Mechanical Biological Treatment.

The capacity of the MRF is similar to the original proposals (287,500tpa now 270,000tpa), except it would be used to recover recyclables from C & I waste. The indicative layout includes two lines for the MRF. One would treat waste that has had little pre-sorting by the waste collector prior to its receipt at the IWMF. The other MRF line would deal with C & I with a higher proportion of putrescible waste which would pass through MBT. The output from the MBT would then pass through the MRF to give the last opportunity to recover recyclates before utilisation of the residue in the CHP. The MBT has been sized by the applicant on the basis of the likely tonnage of C & I waste needing MBT, the MBT element of the IWMF has been reduced from 250,000tpa to 170,000tpa. The make-up of C & I waste is different to LACW. The evidence base for the RWLP states the proportion of putrescible waste within Essex LACW is 21.6%, while the proportion of C & I is estimated nationally to be 13% of total waste. While it is likely that the level of pre-separation is different for LACW and C & I waste, based on these proportions it is likely that C & I waste received at the facility would have a smaller proportion of putrescible waste and this therefore supports the reduction in the size of the volume of waste needing treatment (bio-stabilisation and drying) through the MBT.

Objections and concerns have been raised by BDC, local Parish Councils, the Local Member (Witham Northern) and many residents that the change in size of the different elements of the IWMF would discourage recycling. It should be noted that the MRF capacity has not been significantly reduced, such that the same capacity is proposed to recover recyclates as was the case under the original mix.

Within the evidence base for the WLP the arisings for C & I waste are estimated at approximately 1.3 to 1.5million tpa to be managed each year until 2032. The majority of London's waste dealt with in Essex currently goes to landfill, namely

Pitsea, but this does not preclude provision being made to manage this waste in a manner further up the waste hierarchy. Based on existing permitted and operational capacity (including landfill) there is no shortfall in disposal capacity. However, as mentioned, some of this capacity is landfill capacity. While there are no explicit recycling or recovery targets for C & I waste the need to encourage waste to move from landfill (at the bottom of the waste hierarchy) remains a National objective as set out in the Waste Management Plan for England as well as the NPPW, seeking “*to work towards a more sustainable and efficient approach to resource use and management. Positive planning plays a pivotal role in delivering this country’s waste ambitions...*”

Increasing re-use, recycling and recovery is an objective of the emerging RWLP. The provision of the MRF and MBT at the IWMF would potentially ensure diversion from landfill as well as increased recovery of recyclate from C & I waste. It is acknowledged that as there is existing capacity, albeit within landfills, it could potentially encourage C & I waste to be imported from outside Essex & Southend. However, it should be noted that through a condition of the existing permission, (not proposed to be changed by the current application) the source of LACW and/or C & I waste is limited to be sourced Essex & Southend area only. The condition was imposed to ensure the capacity of the AD, MRF, and MBT at the IWMF contributes to Essex & Southend’s self-sufficiency. It should be noted that the condition only relates to C & I and LACW going to the AD, MRF and MBT, SRF/RDF and waste paper can be imported to the site with no constraint as to its geographical source.

The current landfill rate for C & I waste is 50% across the UK as set out in the DEFRA document “Energy from Waste– A guide to the debate 2014”. However, the expectation is that recycling rates will increase for C & I waste and that at some point in the future recycling rates similar to LACW should be achieved, with the percentage going to landfill reduced to similar levels, that is, 20% of residual C & I waste rather than the current 50%.

Applying the landfill percentage rate of 50% to the C & I waste arisings estimated in the RWLP would derive a figure of 650,000 to 750,000tpa of C & I waste that currently goes to landfill. Applying the landfill percentage rate of 20% to the C & I waste figure for future years, would derive a figure of 260,000 to 300,000tpa going to landfill.

The amended IWMF is intended to receive 300,000tpa of residual C & I waste, consequently, in the future, if C & I waste landfill reduced to 20%, there would still be a need for the facility to divert waste from landfill providing a facility with the last opportunity to recover recyclables and the residue being utilised in the CHP recovering the energy.

Therefore the concern raised by objectors that the amendments to the IWMF would inhibit recycling and consume materials which could otherwise be managed higher up in the waste hierarchy is not borne out by the figures above. This is only really justifiable when opportunities are not taken to separate and remove recyclable materials from waste.

The proposal intends to receive RDF, which has been pre-treated or would be pre-treated on site and this would minimise the material that is capable of being recycled being used as RDF. It should also be remembered it is not solely the responsibility of the operator of the IWMF to provide treatment facilities at higher levels. Compliance with the waste hierarchy is incumbent upon both the producers of the waste as well as the waste industry and not singularly within individual management facilities.

Higher rates of recycling can and do co-exist with higher levels of recovery as in the case within Europe. The DEFRA documents “Energy from Waste – A guide to the debate” acknowledges this fact, identifying that in 2010 Austria achieved 70% recycling (including composting) alongside 30% waste which was incinerated; Germany achieved 62% recycling alongside 38% incineration. This compares to the UK with 39% recycling and 12% incineration. As indicated, this guide states that *‘at present 50% of commercial and industrial waste goes to landfill presenting a significant opportunity for those authorities and plants to exploit it’*. This document also states that *“The Government considers there is potential room for growth in both recycling and energy recovery – at the expense of landfill.”*

It is therefore considered that the IWMF would provide facilities that would contribute to pushing waste management of C & I within Essex & Southend up the waste hierarchy.

Market De-Ink Paper-pulp Plant (MDIP)

The capacity of the MDIP has reduced from 360,000tpa to 170,000tpa. The applicant has justified this reduction on the basis that the market has changed since 2009, due to both the recession and the move to use less white paper. However, if constructed it would be the only facility focusing on printing and writing papers in the UK with the potential to encourage recycling of high-grade paper. Currently such paper is exported overseas for reprocessing. The applicant states there is a demand for “white” recycled paper pulp, replacing virgin pulp inputs to produce products that can be badged “recycled”. The applicant has commented that there is flexibility within the layout of the IWMF to add a second line of production. This would however, need to be subject of a further planning application, to amend the internal layout. Also, if such a proposal resulted in waste inputs above 853,000tpa or resulted in HGV movements in excess of the permitted limits, further planning approval would be required.

The application acknowledges that the tonnage of waste sludges from the MDIP which were proposed to be utilised in the CHP have reduced. The applicant has explained that with improved technologies some of this sludge material can be recovered and utilised in agriculture rather than needing disposal. , This would be in accordance with Waste Hierarchy, the waste being recovered rather than disposed of. It was recognised by the Inspector that there might be future developments with respect to the paper sludge. He stated:

“... it would be possible to introduce secondary treatment of the sludge from the MDIP to recover an aggregate.”

However, it would require the export of the sludge increasing the vehicle

movements associated with exporting this material from the facility. However, it should be emphasised the applicant considers these movements could still be accommodated within the existing permitted vehicle movement limits by utilising vehicles bringing materials to the site not leaving empty, known as back hauling.

While the capacity of the paper pulp plant has been reduced, the facility would still utilise the heat and steam generated on site, making the most efficient use of this energy resource.

CHP & Energy Generation

The capacity of the CHP is proposed to increase from 360,000tpa to 595,000tpa. The applicant in explaining this change in increase has argued that the increase is only one of 489,000tpa to 595,000tpa, on the basis that the calorific value of the waste has changed. The applicant explains the original CHP capacity was on the basis of waste having Net Calorific Value (NCV) of 16 mega joules/kg for an assumed 8000hrs per year operation of the furnaces. The current proposal would utilise waste at a NCV of 12mj/kg over 8250hrs per year. Consequently the original furnaces would have required $(360,000 \times 16 / 12 \times 8150 / 8000)$ 489,000tpa of waste to generate the same amount of energy.

The change in the NCV figure used is justified by the applicant as a result of the standardisation by the EU of NCV specification of RDF /SRF from 12-20 MJ/kg to 9-12MJ/kg. Also it would enable the IWMF operator to bid for contracts to manage SRF/RDF generated within the UK. The applicant states that at present 3 million tonnes of SRF/RDF is exported from the UK each year.

Rivenhall is identified within the emerging Pre-Submission draft RWLP (unpublished) as a site that would be suitable for "Other Waste Management" which could include CHP/Energy from Waste. It should also be noted that one of the key underlying principles in the NPPW is for communities and businesses to engage with and take more responsibility for the waste they generate, not to send it elsewhere.

At present, the Essex Waste Disposal Authority (WDA) is exploring long term options surrounding the final destination for the stabilised residual household waste output of the Tovi Eco Park Facility. This programme of work will be developed after the facility has achieved full service commencement. Currently the output of the facility, around 200,000tpa of SRF, is exported under a short term contract with Suez Environmental up to 2018. It is sent from Thurrock via Tilbury Docks and utilised in energy plants in the Netherlands.

It is anticipated that the Waste Disposal Authority will secure the long term solution for the management of the SRF/RDF through a competitive tender process. The developers of the IWMF could bid for this contract, but the decision as to whether the Rivenhall IWMF might be awarded that contract would be made independently by the WDA. The decision as to whether Rivenhall might be awarded that contract is not one over which the WPA has any involvement.

Regardless of the outcome of the competitive process, the emerging RWLP acknowledges that there is need to provide capacity to manage this waste within

Essex and Southend-on-Sea. The Plan is based on the principle of net self-sufficiency, where practicable. This means having sufficient waste transfer, recycling, recovery, and disposal capacity within the Plan area to manage the amount of waste generated, limiting the reliance on facilities outside of the Plan area whilst recognising that waste will travel across administrative borders. It is therefore recognised that the WPA should make provision for the management of waste arising in the County including SRF/RDF. This means that even if the SRF from Tovi Eco Park were not managed at Rivenhall, the WPA will provide for facilities that result in net self-sufficiency. Thus if the SRF from Tovi Eco Park continued to be exported from the County in the long term, there would be facilities within Essex & Southend receiving similar quantities of waste from elsewhere. As there is no explicit target for management of SRF/RDF, the locations where SRF/RDF is potentially being landfilled or exported within the Plan area is not something that is explicitly monitored.

It is recognised that the input capacity of the proposed CHP is considerably in excess of the 200,000tpa of SRF/RDF to be generated by Tovi Eco Park. The remaining 395,000tpa of capacity could either utilise SRF/RDF to be made on site from C & I waste residue having passed through the MRF/MBT process and waste arising from the MDIP that cannot be recycled, or other imported SRF/RDF. This SRF/RDF could be sourced from within Essex & Southend or from elsewhere. The evidence base for the RWLP, apart from the SRF/RDF to be generated at Tovi Eco Park, has not quantified what other SRF/RDF is being produced in the county, so the data is not available as to how much recycling (as opposed to transfer) capacity exists or whether potentially SRF/RDF is being landfilled or exported from Essex.

It is recognised that the spare capacity could result in RDF being imported to the county. However, the NPPW requires WPAs to identify sites "...for new or enhanced waste management facilities in appropriate locations" and this includes "...*plan for the disposal of waste and the recovery of mixed municipal waste in line with the proximity principle, recognising that new facilities will need to serve catchment areas large enough to secure the economic viability of the plant*". While this refers to LACW the principle is as relevant to C & I waste which makes up a greater proportion of all waste arisings. Facilities are required to achieve the ambition of the NPPW "...*to work towards a more sustainable and efficient approach to resource use and management*". RDF imported to Essex might divert RDF going overseas, helping the UK achieve net self-sufficiency for its own waste.

The total amount of electricity to be generated from both the AD facility and CHP would be approximately 49MW. Approximately half of the energy to be generated by the facility would be utilised on site in the operation of the AD, MBT, MRF, MDIP and the CHP. The proportion of the electricity to be exported from the IWMF has increased from 21MW to 28 MW as part of the amendments.

The promotion of waste as a valuable resource in the production of energy has been actively encouraged by the Government for a number of years and more recently is referred to in the Government Review on Waste National Policy Statement for Energy (2011) EN-1 and National Policy Statement (NPS) for

Renewable Energy Infrastructure (2011) EN-3. In particular it should be noted that the use of residual waste as a source of energy offsets fossil fuels and reduces greenhouse gases from alternative forms of waste management, in particular landfill where considerable negative greenhouse gas impacts are present.

Additionally, there is a pressing need for energy security. The UK faces a growing dependency on imported fossil fuels. By 2020, the UK could be importing nearly 50% of its oil and 55% or more of its gas, with household electricity prices increasing mostly due to global fossil fuel prices. Generating energy from waste rather than from these fossil fuels provides a domestically derived energy source and gives the UK greater fuel security, greater energy independence and protection from fossil fuel price fluctuations. The gap between electricity supply (capacity) and demand is growing ever smaller, with many fossil fuel powered plants reaching the end of their useful life.

Renewable sources such as wind and solar are not discounted, but the intermittent nature of such technologies to generate electricity is an identified issue. Additionally, the recent announcement by the Government to withdraw subsidies for onshore wind turbines and introduce quite onerous planning legislation, means there is likely to be a significant reduction in such renewable technologies coming forward.

One of the government's overarching aims is to provide energy security. The increased generating capacity of the IWMF would contribute towards energy security, through residual waste treatment, lessening the dependency on imported fossil fuels for energy generation, providing the diversification the Government seeks on energy generation, moving away from the reliance on just the traditional fuels of coal, gas and nuclear.

The NPPF actively encourages *any* energy development, stating under Paragraph 98 *“that when determining planning applications, local planning authorities should not require applicants for energy development to demonstrate the overall need for renewable or low carbon energy and also recognise that even small-scale projects provide a valuable contribution to cutting greenhouse gas emissions; and approve the application if its impacts are (or can be made) acceptable.”*

The National Policy Statement (NPS) for Renewable Energy Infrastructure (EN-3) 2011 states that the *“recovery of energy from the combustion of waste, where in accordance with the waste hierarchy, will play an increasingly important role in meeting the UK's energy needs. Where the waste burned is deemed renewable, this can also contribute to meeting the UK's renewable energy targets. Further, the recovery of energy from the combustion of waste forms an important element of waste management strategies in both England and Wales.”*

The increased element of exported electricity is considered in accordance with the Government objectives for the provision of energy from waste.

Concern has been raised as to whether the IWMF, particularly the CHP, is pushing waste up the waste hierarchy. The classification of a recovery operation or a

disposal operation becomes uncertain when considering waste incineration. An Incinerator could be classified as either a recovery operation (Use principally as a fuel or other means to generate energy) or a disposal operation (Incineration on land).

In 2003, the European Court of Justice made two judgements that established principles to differentiate between Recovery operations and Disposal operations. To be classed as a Recovery operation the process must meet the following criteria:

- The combustion of waste must generate more energy than the consumption of energy by the process itself;
The IWMF would generate enough power to run the IWMF itself with all its various waste processes, MRF, MBT, AD and CHP as well as power the MDIP and allow export of 28MW of power
- The greater part of the waste must be consumed during the operation;
The CHP would utilise 595,000tpa and generate approximately 160,000tpa of ashes and residues, therefore demonstrating consuming the greater part.
- The greater amount of the energy generated must be recovered and used (either as heat or electricity);
The CHP would not only generate the heat and steam to be used by the MDIP directly, but would power the facility and generate 28MW of power (including the AD facility)
- The waste must replace the use of a source of primary energy.
The waste would replace a primary source of energy such as gas or coal.

Against these criteria it can be seen that the CHP as part of the IWMF would provide a facility pushing waste up the waste hierarchy.

Therefore while it recognised that the size of the CHP has increased significantly, the facility provides an opportunity for net self-sufficiency for utilisation of SRF/RDF and contribute to reducing the landfill of C & I waste and increasing the production of “green” energy. The proposals are therefore considered to be in accordance with the NPPF, NPPW and national energy policy.

C HEIGHT OF THE STACK, EMISSIONS & HEALTH IMPACTS

The height of the stack for dispersal of the emissions from the CHP and the potential impacts on health have been two of the major objections raised within letters of representation both from individuals, Parish Councils and one of the Local Members. This was the case with the original application and has raised even more concern due to the increase in the capacity of the CHP element of the IWMF.

Frequently the issue of emissions/air quality and impacts on human health are of a great concern to communities that live within the vicinity of a proposed CHP/Energy from waste facility the NPPW acknowledges that incinerator applications are likely to be controversial. In particular concern has been raised as to the acceptability of the height of the stack and its ability to safely disperse emissions. The height of the stack is limited by an existing planning condition at

85m AOD or approximately 35m above natural ground levels. The applicant at the time of Public Inquiry demonstrated that a stack of this height could be acceptable and no objection was raised at that time by the Environment Agency. However, it was acknowledged by the EA at that time that only upon considering an Environmental Permit for the facility could any conclusion be reached as to the acceptability of the height of the stack.

Representations have made reference to other energy from waste facilities/incinerators where the stack heights have been much higher and hence concern that the stack height would seem to be unlikely to be acceptable. One factor on this site to be borne in mind is that some of the stack and treatment plant for emissions are below natural ground levels due to the facility being partly sunken into the ground. The stack heights which have been referred to in representations are for facilities located at ground level.

The applicant submitted information on air quality as part of the original application that has been updated as part of the current application. The conclusions of the applicant's air quality studies are that the amended development is forecast to have no significant effects on air quality and no significant cumulative effects are forecast to occur.

A Human Health risk assessment was part of the original application and was updated as part of the current application. The conclusions of the study are that the emissions to air from the proposal would not pose unacceptable health risks to residential or farming locations in the vicinity of the proposed facility.

It should be noted that the responsibilities regarding emissions/air quality and impact on human health fall into various remits, primarily through the Environment Agency permitting regime and in part through the planning and Environmental Health. In simple terms the Environment Agency are responsible for setting and enforcing emission limits from the operations of the IWMF including emissions from the stack. The WPA, in conjunction with the BDC Environmental Health Officers are responsible for emissions from other activities (e.g. construction phase and traffic).

The role of the WPA and the Environment Agency is set out in paragraph 122 of the NPPF :

'... local planning authorities should focus on whether the development itself is an acceptable use of the land, and the impact of the use, rather than the control of processes or emissions themselves where these are subject to approval under pollution control regimes. Local planning authorities should assume that these regimes will operate effectively...'

Additionally, the National Planning Policy on Waste 2014 states under para 7 "*Waste Planning authorities should - concern themselves with implementing the planning strategy in the Local Plan and not with the control of processes which are a matter for the pollution control authorities. Waste planning authorities should work on the assumption that the relevant pollution control regime will be properly applied and enforced*"

And

“...consider the likely Impact on the local environment and on amenity ...Waste Planning Authorities should avoid carrying out their own detailed assessment of epidemiological and other health studies.”

The National Planning Guidance further reiterates this by stating that

“The focus of the planning system should be on whether the development itself is an acceptable use of the land and the impacts of those uses, rather than any control processes, health and safety issues or emissions themselves where these are subject to approval under other regimes. However, before granting planning permission they will need to be satisfied that these issues can or will be adequately addressed by taking the advice from the relevant regulatory body.”

Consequently, it is not for the Waste Planning Authority to consider in detail the impacts of the stack emissions when considering the merits of the planning application. The control of the emissions from the stack is fully within the remit of the Environment Agency through its permitting process. However, it is not for the planning authority to dismiss this issue. If the Environment Agency or any other relevant health authorities/agencies in their consultation responses consider that the air quality emissions would exceed permissible levels and have an adverse impact on air, it can be considered that the site is not suitable for the intended use being considered by the planning authority.

The Government's position is clear, planning authorities should call on the advice of the relevant bodies and work on the assumption that the relevant pollution control regime will be properly applied and enforced. It is also clear that refusing permission or requiring specific mitigation, when the matter is within the remit of another relevant body, is not appropriate. This approach would be consistent with the position set out in the National Policy Statement for Energy EN-1 that states that generally, those aspects of energy infrastructure which are most likely to have a significantly detrimental impact on health are subject to separate regulation (for example for air pollution) which will constitute effective mitigation, so that it is unlikely that health concerns will either constitute a reason to refuse permission or require specific mitigation.

The Environment Agency, Environmental Health and Public Health have all been consulted and none have raised any objections in principle, with the Environment Agency noting that it is their responsibility through the permitting process to manage emissions from the process (i.e. stack emissions).

It is noted that research carried by the Health Protection Agency in 2009² concluded the following:

“The Health Protection Agency has reviewed research undertaken to examine the suggested links between emissions from municipal waste incinerators and effects on health. While it is not possible to rule out adverse health effects from modern,

² The Impact on Health of Emissions to Air From Municipal Waste Incinerators. Advice from the Health Protection Agency. February 2010

well regulated municipal waste incinerators with complete certainty, any potential damage to the health of those living close-by is likely to be very small, if detectable. This view is based on detailed assessments of the effects of air pollutants on health and on the fact that modern and well managed municipal waste incinerators make only a very small contribution to local concentrations of air pollutants. The Committee on Carcinogenicity of Chemicals in Food, Consumer Products and the Environment has reviewed recent data and has concluded that there is no need to change its previous advice, namely that any potential risk of cancer due to residency near to municipal waste incinerators is exceedingly low and probably not measurable by the most modern techniques. Since any possible health effects are likely to be very small, if detectable, studies of public health around modern, well managed municipal waste incinerators are not recommended.”

The Agency's role is to provide expert advice on public health matters to Government, stakeholders and the public. The regulation of municipal waste incinerators is the responsibility of the Environment Agency.”

It is acknowledged that this statement is in relation to Municipal Solid Waste (MSW) now called LACW, but the overall nature of C & I waste is not significantly different. The consideration required by the WPA is whether or not the proposal would give rise to *unacceptable* air quality emissions that would exceed permissible levels and have an adverse impact on human health and air quality. In considering this it must take the advice of the relevant technical authorities, i.e. the Environment Agency, Public Health and Environmental Health. None of the relevant technical authorities have stated that the proposal would give rise to unacceptable air quality emissions that would exceed permissible levels and have an adverse impact on human health and air quality.

The outcome of the relevant technical experts is clear, it is considered that there would not be any unacceptable air quality emissions that would exceed permissible levels and have an adverse impact on human health and air quality.

The public's concerns or perceptions in relation to health and air quality are considerable for this application and are a material consideration.

Public concern can sometimes be associated with the previous generation of incinerators; however the implementation of new EC Directives resulted in the closure of many old incinerators across Europe, including the UK, which could not comply with new standards. The UK Health Protection Agency's (pre-cursor to Public Health England) Position Paper on Municipal Waste Incineration (2010) mentioned above found that in most cases an incinerator contributes only a small proportion to the local level of pollutants and concluded that the effects on health from emissions to air from incineration are likely to be small in relation to other known risks to health. This is in respect of modern incinerators as opposed to the previous generation of incinerators. The Health Protection Agency concluded that there is little evidence that emissions from incinerators make respiratory problems worse; similarly, there is no consistent evidence of a link between exposure to emissions from incinerators and an increased rate of cancer. This is the opinion of the relevant body and one which the planning authority should rely upon and, as stated in para 7 of the National Planning Policy for Waste 2014, planning

authorities “...should avoid carrying out their own detailed assessment of epidemiological and other health studies”.

It is not simply that the public concerns on this matter should be dismissed, but for them to carry significant weight within the planning application there would need to be reliable evidence to suggest that perceptions of risk are objectively justified, i.e. that the operation of the IWWMF plant actually would pose an actual risk. The Environment Agency has not objected and the report referred to above evidences that, subject to an Environmental Permit, the IWWMF would not pose a risk and the planning authority should rely on the experts in this matter.

The Environmental Permit currently being considered by the Environment Agency is the arena in which the emissions from the process/stack will be subject to detailed scrutiny and where the expertise lies.

In conclusion the relevant technical bodies, Public Health and the Environment Agency have raised no concerns. As a reminder of the roles, case law, *Cornwall Waste Forum v SoS for Communities and Others 2012*, the judge stated that “*It is not the job of the planning system to duplicate controls which are the statutory responsibility of other bodies...Nor should planning authorities substitute their own judgement on pollution control issues for that of the bodies with the relevant expertise and responsibility for statutory control over those matters.*”

In accordance with the National Planning Policy on Waste 2014 the planning authority has sought appropriate technical advice to satisfy itself that the operation would not result in any significant air quality, pollution or health impacts and there is no reliable evidence to suggest that perceptions of risk are objectively justified, i.e. that the operation of the IWWMF actually would pose an actual health risk; none of the consultees conclude that this would be the case. The concerns raised by residents regarding risk to human health are noted, but it is not considered that as part of the planning process (in accordance with previous case law and guidance) that substantial weight can be attached to these concerns in the determination of this planning application.

D TRAFFIC AND HIGHWAYS

Concern has been raised by representees as to the impact of traffic on the A120, in view of the existing heavy traffic that uses the road and the likely congestion the IWWMF traffic would cause. Concern has also been raised with respect to the potential for traffic to use alternative routes if the A120 is congested.

Similar concerns were raised with respect to the original application and the Inspector commented:

“It is accepted that the A120 Trunk Road is busy and some sections operate in excess of their economic design capacity and have reached their practical capacity. However, this occurs at peak times and the road should not be regarded as unable to accommodate additional traffic. Traffic to the eRCF would avoid peak hours where practicable.”

And

“Objectors have also expressed concern about the possibility of HGVs diverting onto local roads and travelling through local villages. However, as indicated above, HGV deliveries and despatches to and from the site would be under the control of the plant operator and the proposed HGV routeing agreement, which would be effective from the opening of the plant, would ensure that rat-running would not occur under normal circumstances.”

It has been demonstrated by the applicant that the proposed amendment to the various capacities and operation of the site could be achieved within the existing HGV movements. See appendix C. The number of HGV movements is not proposed to be changed and are limited by condition to 404 movements (202 in 202 out) Monday to Friday and 202 movements (101 in 101out on Saturdays). The existing planning permission is subject to an obligation such that the operator is required to ensure HGV vehicles only use main roads to access the facility. All vehicles associated with the site are required to use the access onto the A120; no vehicular access is permitted from Woodhouse Lane. Funds have also been secured through the S106 agreement to enable the Highway Authority to put in place appropriate directional signage to the facility. In addition there is an obligation to review the need for two way crossings at Ash Lane & Church Road should queuing of vehicles occur to the detriment of the public highway. In addition funds are secured for highway works should the A120 ever be de-trunked.

No objection was raised by the Highway Agency to the original application or by Highways England with respect to the current application. In addition the Highways Authority has raised no objection to the use of the crossings with Ash Lane and Church Road subject of the imposition of similar conditions and obligations with respect to traffic movements and highway works as existing.

The Highways Authority have raised no objection to the discharge of condition of condition 6 (access and cross-over points), but have suggested that while not public highway the surfacing should be hot rolled asphalt rather than asphalt concrete and this could be added as an informative. In addition no objection has been raised with respect to details submitted under condition 20 (construction compounds and parking). It is therefore considered these conditions (6 & 20) can be discharged.

Plans submitted with the application make reference to routes giving access to Hangar No. 1, located adjacent to Shepcotes Lane. While use of the proposed access road is acceptable for agricultural traffic which previously used the old airfield tracks, no permission has been sought as part of this application or the original application for use of the IWMF access road as means of access to Hangar No.1. This is a matter for Braintree District Council and would need to have a separate planning permission which would need to consider the highway impacts of any additional usage of the access onto the A120. Therefore an additional condition could be imposed to address this matter by limiting use of the access road to the IWMF, the adjacent agricultural land and the existing use of Bradwell Quarry.

In conclusion, subject to the re-imposition of existing conditions and an additional condition limiting access as suggested above it is considered the amendments to condition 2 would not give rise to adverse impact on highway safety or capacity and are therefore in accordance with the WLP policies W8A and W10E.

E PUBLIC RIGHTS OF WAY

Concerns were raised by the Ramblers Association as to the lack of detail with respect to the routes of PRoW on the drawings submitted under the changes to condition 2 and also the detail with respect to the various crossing points for public rights of way under condition 63.

Revised drawings have been submitted including the routes of PRoW and additional more specific information has been provided for each crossing with a PRoW. It should be noted that there are no new crossing points, crossings already exist due to the quarry access road and haul road. No adverse comments were received with respect to the proposed signage at crossing points submitted under condition 37.

In light of the above matters being addressed and receiving no adverse comments from the County's PRoW team, it is considered that conditions 63 (crossing points) and 37 (PRoW signage) in respect to PRoW are in accordance with WLP policies W10E and W10G and can be fully discharged.

F WATER ENVIRONMENT

Concern has been raised by local residents and the Local Member (Witham Northern) as to the change in the arrangements for water supply to the facility. The currently permitted scheme envisaged the water needed for the facility to be provided from a combination of surface water collected both on the site and surrounding agricultural land and a limited amount from either an abstraction licence from the River Blackwater or from mains water. The water was to be stored in the Upper Lagoon and New Field Lagoon. Water arising from the waste processes was to be treated in a Waste Water Treatment Plant (WWTP) such that the water could be recirculated. The water supply as now proposed relies more heavily on water from the River Blackwater utilising an existing abstraction licence, but still also utilises surface water collected on site and draining from surrounding agricultural land. The water would continue to be stored within Upper Lagoon and New Field Lagoons and treated in on site WWTP and recirculated through the lagoons for reuse on site, a "closed loop system". It is acknowledged that the existing abstraction licence from Blackwater has limitations as the total volume of water that may be extracted, times of years and requires minimum flows in the River Blackwater. The applicant has demonstrated that even when there are periods of draught the capacity within the lagoons would ensure an adequate supply of water to the IWMPF.

The existing abstraction licence is not in use at present and no infrastructure exists. The licence is due to expire but the EA has indicated there is no reason why the licence would not to be renewed. The route of the pipework required to connect the site to the abstraction point has not been finalised and does not form

part of this planning application. A further approval would be required.

Confusion has arisen, as to the proposed water system, as the applicant also referred in the planning application documentation to a potential further alternative arrangement for water management whereby more water would be abstracted from the River Blackwater and then, following treatment to a standard equivalent to that when it was abstracted, be discharged into the River Blackwater. Such proposals would require new abstraction licence and a discharge licence from the EA and these would only be granted if the EA considered these would not result in unacceptable impacts on the environment. It is understood pre-application discussions have been held with the EA for such an arrangement but no licence applications have been made. The current application remains on the basis of utilising surface water collected on site and from the surrounding agricultural land and utilising the existing abstraction licence from the River Blackwater, the “closed loop system”.

The EA has not raised objection to the proposed arrangement of utilising the existing abstraction from the Blackwater River, with storage of water in Upper Lagoon and New Field Lagoon.

Details have been submitted with respect to foul water management (Condition 22), surface and groundwater management (condition 23) and groundwater monitoring (condition 24) and the EA have no objection to discharge of these conditions.

G LANDSCAPE & VISUAL IMPACT

In 2009, in considering the landscape and visual impact of the proposals, the Inspector took into account a number of factors including the existing landscape character and the proximity of existing properties and PRoW. It was noted that there are only a few residential properties located in close proximity to the site. The Inspector considered the impact of the various elements of the proposal including the buildings and plant themselves, the chimney stack, the access road and the proposed lighting. The Inspector took account of the proposed mitigation, including the part sunken nature of the buildings and plant, the location of the extended access road within a cutting, the proposed green roof, proposed landscape planting, the reflective finish of the chimney and the measures proposed to minimise light pollution and said:

“In conclusion on the overall subject of the impact on the landscape, it is accepted that visual harm is inescapable in the context of the provision of a major waste management facility. However, the issue is one of degree. The degree of harm that would result in this instance is remarkably limited. The low levels of visual impact arising from such a large-scale proposal confirm that this site is ideally suited to the proposed use.”

The amendments to the proposals do not significantly change any of these elements. The buildings are slightly smaller, the arrangement of plant to the rear of the buildings has changed and the location of chimney moved by 17 m. However, the changes do not result in a significant change to the landscape and

visual impacts. The number of tanks associated with the AD facility to the rear of the building has been reduced from four to one, reducing the bulk of these structures to the rear of the building; alternative plant relating to air cooling equipment has replaced that of the AD tanks, but remains below the height of the main building. The CHP plant is now higher and bulkier than before but remains below the height of the main building and views of the plant through the retained tree would be against the backdrop of the main building.

The different mitigations previously proposed would not be changed as a result of the amendments. In fact the reduction in the size of the main building has enabled an additional 5m of the woodland to the south of the buildings and plant to be retained, increasing the thickness of this screening belt. The creation of excavated slopes and soil nail walls as opposed to use of remaining walls means that additional areas are available on the slopes for planting and habitat creation.

Details of the landscape details required by conditions 57 and 59 have been submitted including species, sizes, spacing and protection measures and no objections have been raised to the planting details. In addition details have been submitted under condition 18 for the green roof, under condition 60 details for management of existing trees and under condition 61 landscaping details for the parking area adjacent to Woodhouse Farm. No adverse comments have been received. Details have been submitted required by condition 15 with respect to the building materials for the main two-arched roof building and no adverse comments have been received. It is therefore considered these conditions can be discharged in full.

Details have also been submitted with respect to the phasing of the haul road, the retaining walls and mineral extraction as required by condition 45. The working of the majority of the mineral previously means that little is left to be worked, in addition the construction of the retaining walls is less complicated as the reduced building size has enabled there to be slopes and soil nail walls rather than the need to construct vertical retaining walls. No adverse comments have been received and it is considered the condition could be discharged.

In order to minimise the impact of the stack/chimney the details of the finish for the stack were required to be submitted (Condition 14) along with details as to how the plume from the stack would be managed to avoid a visual plume (condition 17).

It should be emphasised the reason the details were required by these conditions relates to the physical external appearance of the stack and plume and the resulting visual impact. The conditions were not imposed to control emissions from the stack that are a matter for the Environment Agency. It is not necessary for the EA to have reached its conclusions with respect to the height of the stack for the details of its external appearance to be approved. A new planning application would be required if the stack height was found to be unacceptable by the EA and would have to be considered on its individual merits.

The details of the stack finish as submitted would provide the mirror like finish envisaged at the application stage and include the method of placement, cleaning and maintenance and thus it is considered the condition could be discharged.

The County's air quality consultant has reviewed the measures to prevent a visual plume from the stack, namely the removal of water vapour from the emissions and has concluded that the proposed measures would ensure under the majority of circumstances with no visual plume. The air quality consultant requested a management plan which would allow review the management techniques should there be any occurrences of a visual plume and a suitable management plan has been submitted by the applicant. It is therefore considered condition 17 (plume management) can be discharged.

With respect to landscape and visual impact it is considered that there are no changes that would materially alter the original conclusions of the Inspector and therefore the proposals are in accordance with WLP policies W10E & W10G and BDLPR policies RLP 80, 81, 86, 87 and 90.

H ECOLOGY

The proposed changes to the development do not involve any additional land.

The Inspector in considering the original application noted that there were species of nature conservation value (Great Crested Newts (GCN & bats) and habitats of interest on the site semi-improved natural grassland, semi-natural broadleaved woodland, the River Blackwater and ponds). It was also recognised by the Inspector that the applicant had committed to a range of ecological enhancements that went beyond compensation, including additional woodland, hedgerows and areas of open habitat and ponds management for GCN and proposed bat roosts within the refurbished buildings. It was acknowledged that some of these would take time to mature. He concluded that the ecological impact overall would be a residual positive benefit.

The ES has been updated with respect to ecology and no new issues have arisen that weren't previously identified as part of the original consideration and the proposed mitigation remains the same. The green roof proposals have been amended slightly in that areas of substrate (crushed concrete and sand and gravel) were to be left exposed on the roof, but now the building's roof is to be entirely growing green roof matting. Areas of exposed substrate are now proposed on the soil nail walls instead, to create the same type of habitats as were to be provided on the roof.

Conditions 53 (ecology survey) and condition 54 (Ecological Management Plan) have been previously submitted and in part discharged, but survey updates have been provided due to the passing of time.

Natural England has raised no objection to the amendments to the proposals or the discharge of the conditions. The County's ecologist is satisfied with submitted details with respect to the condition 53 (ecological survey update) and condition 54 (Habitat Management Plan) and these conditions can be discharged. No adverse comments have been received with respect to the traffic calming measures for the haul road required under condition 62 to protect otters and voles.

It is known that there are bat roosts within the Woodhouse Farm buildings and to ensure there is no doubt as to the need for a licence from Natural England prior to any works to these buildings, which might impact upon the bats, the ecologist has requested an additional condition to this effect, which could be imposed if planning permission were granted.

Lighting details have been submitted for construction lighting (condition 43) and condition 13 (Woodhouse Farm lighting). The County's lighting consultant has raised no objection to the lighting scheme and notes the scheme has been designed with a good understanding exterior lighting design and good lighting practices, achieving adequate lighting without light pollution. The consultant did raise some concerns with respect to the potential impact of lighting upon bats recorded in the site, particularly as roosts have been identified in Woodhouse Farm area. Representees have also raised concerns with respect to lighting both with respect to light pollution and impact upon wildlife. Additional information was submitted by the applicant's ecological consultant, who concluded the light levels would not have an adverse impact on the bats and there were unlit routes which would allow them to move about unhindered and the County's lighting consultants is satisfied with this additional information. It is therefore considered the details submitted with respect to lighting (conditions 43 and 13) can be discharged.

The additional ES information submitted with the application has included consideration of the cumulative ecological impacts of the pipework that would be needed to connect the IWMF to the abstraction point on the River Blackwater and the cable route for the electricity cable that would be need to link the IWMF to the National Grid to enable the export of electricity. The majority of the route for the water pipe would follow the IWMF access road. As such the ecological impact would be minimal and no specific issues have been raised with respect to species or habitats. In any event a separate approval would be required for the pipework when the ecological impacts would be considered in more detail.

The additional ES has noted that the presence of GCN have been recorded near the electricity substation at Galleys Corner which is the likely connection point to the National Grid. It is likely the electricity cable would be put in place by the electricity statutory undertaker and thus could be carried out under permitted development rights. Nonetheless the statutory undertaker would still need to ensure there was no harm to this protected species and it is considered appropriate to impose an informative to this effect should permission be granted. It is considered that the additional ecological impacts arising from the electricity cable and pipework are not such that the proposals with these additional works would give rise significant adverse impacts upon ecology.

Subject to the additional condition with respect to the need for a bat licence the amended development details do not give rise to any additional adverse impacts not addressed through the original mitigation and the proposals are considered to be in accordance with WLP policy W10E and do not conflict with BDLPR policies, 80, 81 & 84.

I HISTORIC ENVIRONMENT & ARCHAEOLOGY

The nearest Listed Building to the IWMMF is Woodhouse Farm and buildings which are proposed to be refurbished as part of the development and utilised as an education/visitor centre. The impact of the IWMMF, namely the parking for the facility to be located to the northwest of Woodhouse Farm and the CHP stack were considered by the Inspector. He concluded “...*the proposed parking and CHP stack would not have a significant adverse impact on the setting of nearby Listed Buildings and the benefits of restoration would far outweigh the resulting impacts.*” The location of the CHP stack has been slightly amended by the revised layout for the facility such that the stack is 17m to the south east. It is not considered that the difference in location would be discernible from Woodhouse Farm and therefore would not change the overall conclusion that any impact upon the setting of the Listed Building was outweighed by the benefits of their restoration. A Listed Building consent application has been made to BDC for the refurbishment works and is currently under consideration. It is therefore considered the application is in accordance with WLP policy W10E, BDLPR policy RLP 101 and the NPPF in that any impacts on the setting of Listed Building are far outweighed by the benefits of restoration.

Details under condition 13 have been submitted with respect to signage, lighting, telecommunications and no objection has been raised by the County's Historic buildings advisor.

With respect to the refurbishment of Woodhouse Farm and buildings as a visitor education centre it is understood that a Listed Building consent application has been made to Braintree District Council, but cannot be determined until additional information has been submitted. In order to ensure that there is timely restoration of the buildings, which are in very poor state of repair, it is considered appropriate to impose an additional condition setting a long stop date as to when the refurbishment of these buildings should be completed. It has to be acknowledged that obtaining the Listed Building consent and the necessary licence from Natural England due to bats that reside within the buildings are not quick processes, and therefore any long-stop date needs to be reasonable. It is therefore considered that a period of 6 years for the completion of the refurbishment works would not be unreasonable starting from commencement of development of the IWMMF. Should planning permission be granted such a condition could be imposed.

The majority of the application site has already been the subject of archaeological investigation as part of previous mineral workings, only a small area of the site remains to be investigated, but a scheme of investigation is in place for this area. It is therefore considered the amendments to the IWMMF are in accordance with WLP policy W10E and BDLPR policies RLP105 and RLP 106.

J RESIDENTIAL IMPACT

Concerns with respect to air quality caused by emissions from the stack have been considered in Section C earlier. Concern has also been raised with respect to deterioration of air quality due to the HGV movements. No additional HGV movements are proposed as part of the amendments and therefore there would no

additional air quality impacts than those previously considered by the Inspector and considered to be acceptable.

Details have been submitted with respect to the control of dust (condition 51a) and odour (condition 52a) separately to the current application and approved.

The revised layout and changes to the location of plant have been reassessed in terms of the likely noise impacts and it has been demonstrated that the revised facility could be operated within the maximum noise limits set out within the existing conditions. The Inspector in determining the 2008 application considered the proposed maximum limits would ensure there would be no adverse impact on residential amenity. The County's noise consultant considers that it has been demonstrated that revised proposals could be operated within the existing permitted noise limits, but has requested that upon finalisation of the plant details (under condition 19) that the noise assessment be required to be updated to verify that the maximum noise limits would not be exceeded. Such a requirement could be secured by condition if planning permission were granted.

It is considered subject to the previous conditions controlling, hours of operation, noise, dust and light and the additional noise condition, there are no adverse impacts arising from the proposed amendments that would warrant refusal of the permission and the proposals are in accordance with WLP policy W10E and W10F and BDLPR policies RLP 36, 62 and 63.

K CUMULATIVE IMPACT

The Environmental Statement has considered the cumulative impact of the development both in terms of other developments in the area, including non-mineral development, although it should be remembered that the assessment can only take account of development that is reasonably likely to come forward i.e. has planning permission or is identified in a Development Document. This included the cumulative impact of the adjacent mineral workings both permitted and within the Minerals Local Plan has been assessed. Also the impacts of ancillary development that would be required to facilitate the development of the IWMF, namely the necessary water pipework and electricity cables.

No significant adverse environmental impacts were identified.

The environmental impact of both just abstraction and abstraction with discharge has both been considered as part of the ES. An assessment of the impact of the likely routes of the pipework has been considered. No significant issues have been identified, but the routes would need to be subject of appropriate archaeological and ecological assessment, which could form part of any further approval.

The water pipework and electric cable would result in short sections of hedgerow loss amounting to 50m in total but replacement hedging could be provided. The connection point for the electricity substation is in an area where GCN have been recorded in the past, but the statutory undertaker would have a duty under The Wildlife & Countryside Act to address this issue before carrying out any such

works.

L LEGAL AGREEMENT

There is an existing legal agreement associated with the 2009 SoS decision. The obligations within this agreement remain associated with subsequent superseding variation permissions (ESS/41/14/BTE & ESS/55/14/BTE) by way of deeds of variation.

The heads of terms from the 2008 Committee report for the original application ESS/37/08/BTE are set out in Appendix F for reference. In summary the obligations related to highway works, funding for signage to direct HGV traffic to the site, highway works in the event the A120 was de-trunked, refurbishment of the Wood House Farm complex for a visitor/education centre including provision of Heritage Room and education areas, requirement for a liaison group, groundwater monitoring outside the site, historical record surveys, planting details outside the site and requirement for an ecological management plan.

If the current application were granted there would also be a need for a further deed of variation to ensure the obligations remain associated with the any new planning permission.

The WPA has proposed a minor change to the obligations within the original legal agreement, requiring the minutes of the liaison group to be provided within 3 weeks of the meeting rather than just prior to the next meeting. In addition, as mentioned previously, the applicant has proposed to provide a member of staff who would have the role of an education/waste minimisation officer. To secure this offer an additional obligation would be required. Both these amendments are set out within the Recommendation.

In addition to the above changes the applicant has applied for two minor changes in response to changes in circumstances since the original agreement. The first relates to the necessity to complete the highway works prior to implementation. The applicant has requested certain activities may be excluded from the definition of implementation with respect to the legal agreement namely tree and scrub clearance and archaeological work. Both these activities would generate limited additional traffic movements. The highway works are relatively minor relating to lining and signing at the crossings with Church Road and Ash Lane. Normally highway works are required to be completed before development commences in order to ensure that there is no impact on the safety and capacity of the highway network and is often the construction of the access itself. In this case the access to the public highway is already established and the Highway Authority has no objection to the impact on Church Road and Ash Lane of traffic generated from tree and scrub felling and archaeology prior to the completion of the Highway Works. It is therefore considered that the propose change would not give rise to any adverse highway impacts.

In addition the applicant has also requested the trigger for the requirement to deposit monies in relation to the de-trunking of the A120 be amended from prior to the application for the Works Licence necessary for the Highways Works to prior to

beneficial use of the IWFM. The timescale chosen at the time of the signing in 2009 reflected the circumstances at that time when it was anticipated the Highways Agency would be agreeing an alignment for a new A120 between Braintree and Marks Tey and a timetable for commencement established. This did not come to fruition and at the current time there is no agreed scheme for an enhanced and/or replacement A120 or any anticipated timescale for such a scheme. The Highways Authority has no objection to this suggested change in view of the change in circumstances. It is therefore considered reasonable that the payment of monies for any highway works that might be necessary upon de-trunking of the A120 is postponed until the IWFM is in beneficial use. This would still ensure the monies were available in a reasonable time since the IWFM permission has to be implemented by 2 March 2016 (or 2 March 2017 if the current appeal is upheld) and construction is expected to take 1-2 years. Thus the contribution money would therefore be available within 2 to 3 years, it is unlikely that a new scheme for the A120 would be agreed and implemented before this time.

M COMMENCEMENT OF DEVELOPMENT

The current planning permission and, if planning permission is granted, the new planning permission, would have a commencement date of 2 March 2016. If resolved to be granted the applicant has sought to ensure that a decision notice could be issued promptly and has been seeking to obtain a highway Works Licence to enable the necessary highway works to be undertaken. It is considered the applicant has submitted all necessary information to discharge pre-commencement conditions and obligations and intends to implement the planning permission prior to the 2 March 2016. Should permission be granted it should be noted that it is not necessary for the Environment Permit to be determined for the developer to lawfully commence the development. However, clearly the developer would be taking a commercial risk should an Environmental Permit ultimately not be issued and the facility be unable to operate. It is considered appropriate that in case this situation should arise, a condition should be added to the permission which requires a plan of action for an alternative use for the IWFM site or rehabilitation scheme for the site if the IWFM is not brought into use within 5 years of commencement. The period suggested has been calculated on the basis that the Environmental Permit application process could take as long as a year to conclude and construction of the IWFM is likely to take between 1 and 2 years. Therefore to allow a degree of flexibility it is considered that a 5 year period would not be unreasonable and ensure the application site does not remain uncertain for an unreasonable period.

8. CONCLUSION

The key overarching purpose of planning is to deliver sustainable development. The NPPF in particular promotes a presumption in favour of sustainable development; referred to as the 'golden thread' running through decision taking. The National Planning Policy for Waste, the BCS, the WLP and the emerging RWLP also refer to sustainability objectives.

At paragraph 6 of the Framework it is stated that "*the purpose of the planning*

system is to contribute to the achievement of sustainable development. There are three dimensions to sustainable development: economic, social and environmental.” In an economic role planning should “be contributing to building a strong, responsive economy, by ensuring that sufficient land of the right type is available in the right places and at the right time to support growth and innovation.” In a social role planning should be “supporting strong, vibrant and healthy communities, by providing the supply of housing required to meet the needs of present and future generations; and by creating high quality built environment, with accessible local services that reflect the community’s needs and support is health, social and cultural well-being.” In an environmental role planning should be “contributing to protecting and enhancing our natural, built and historic environment; and, as part of this, helping to improve biodiversity, use natural resources prudently, minimise waste and pollution and mitigate and adapt to climate change including moving to a low carbon economy.”

While the amendments would result in a change in capacities of the IWMF it is still considered that the facility would provide an integrated approach to waste management. The MBT & MRF would ensure recyclables are recovered prior to use of the residue as a fuel source for the CHP, in accordance with the principle of pushing waste up the waste hierarchy. The on-site de-ink paper pulp plant would make direct efficient use of the heat and steam from the CHP and produce recycled paper pulp in the UK reducing the need for imported supplies. The remaining capacity of the CHP, in combination with biogas from the AD facility, would generate “green” electricity, contributing to sustainable development, reducing carbon emissions from non-fossil fuel electricity generation and contributing to reducing the impacts of climate change.

The IWMF would provide waste management capacity for C & I waste within Essex & Southend further up the waste hierarchy and thereby reducing C & I waste going to landfill. The IWMF would create capacity to utilise SRF/RDF generated in the county. Even if the IWMF was not awarded the contract for the management of SRF/RDF generated at Tovi Eco Park by the WDA the IWMF capacity to deal with SRF/RDF would ensure that Essex & Southend had capacity to deal with SRF/RDF helping to achieve net self-sufficiency for the County’s waste management needs. The spare capacity in the CHP would encourage waste currently landfilled to be used as a resource from which energy could be recovered again helping to move waste management up the waste hierarchy.

No objection has been received from the Environment Agency with respect to the potential emissions from the CHP plant and Government guidance is clear that unless statutory bodies raise concerns with respect to emissions it is not the planning authorities’ role to refuse the application on pollution or health grounds. These will be addressed through the Environmental Permit and the planning authority should assume these control mechanisms would work effectively.

The concern that the application should have been a new full application was considered by the WPA and it was concluded that the way the conditions were imposed in the 2010 planning permission reflected the Inspector’s intention to allow flexibility in the implementation of the consent and that the application could be considered by way of a variation to the original consent.

The application was supported by an Environmental Statement. No significant adverse effects have been identified arising from the proposed changes which were not already addressed by mitigation or secured by condition. As a result of the amendments, there would be no additional impacts with respect to traffic, landscape, visual impact, impacts on the Historic environment, archaeology, ecology or impacts of residential amenity, which are not already mitigated by the proposals and/or controlled by existing or proposed conditions or obligations of the legal agreement. While the facility would utilise more water from an existing permitted abstraction licence, there is storage capacity within the site to utilise this abstraction and ensure adequate water supply even in dry periods, without adverse impact. Therefore the proposals are in accordance with WLP policies W8A, W4A, W4B, W4C, W10E and BDLPR policies RLP 36, 54, 62, 63, 64, 65, 71, 72, 80, 81, 84, 86, 87, 90, 100, 105 and 106.

The Inspector in considering the original application stated

The eRCF is consistent with the key planning objectives set out in PPS10 [now superseded and embodied within the NPPW]. It would help to deliver sustainable development by driving waste management up the waste hierarchy and addressing waste as a resource. It would reduce the need for disposal by landfill and would recycle waste into marketable products. Moreover, it would have benefits in terms of climate change. It would also contribute towards ensuring the timely provision of sufficient waste management facilities to meet the needs of the community and assist in the implementation of ECC's strategy to provide a framework within which the community takes more responsibility for its own waste. The eRCF would contribute to the implementation of the national waste strategy.

It is not considered that the proposed changes would undermine these original conclusions. The proposal is sustainable development, in that it meets the needs of Essex & Southend; contributes to the sustainable management of waste; provides recycling capacity for C & I waste; provides reprocessing capacity for recovered paper efficiently using on site heat and power; provides a source of energy offsetting fossil fuels and reducing greenhouse gases from alternative forms of energy, better waste management, in particular by providing capacity to divert C & I waste from landfill; and is in accordance with the principles of the waste hierarchy set out in the National Planning Policy for Waste.

The development is therefore considered to represent sustainable development for the purposes of the NPPF and is considered to comply with the relevant policies of the development plan taken as a whole.

9. RECOMMENDED

That planning permission be **granted**, subject to the following:

- 1) A deed of variation to be completed within 3 months prior to issuing of the planning permission to address the following:
 - to ensure the new planning permission remains subject of the

obligations of the original s106 associated with Ref. APP/Z1585/V/09/2104804 (ECC ref ESS/37/08/BTE), ESS/41/14/BTE and ESS/55/14/BTE.

- to amend the obligation with respect to liaison group requiring minutes to be produced shortly following the meeting
- to make provision for an education and waste minimisation officer at the IWMF
- To amend the requirement for the contribution towards highways works associated with the de-trunking of the A120 such that it shall be required prior to beneficial use of the IWMF

2) Condition 2 be updated to refer to the submitted amended plans

3) The details submitted to discharge conditions 6, 13, 14, 15, 17, 18, 20, 22, 23, 24, 37, 43, 45, 50, 53, 54, 57, 59, 60, 61, 62 and 63 be approved and the details included in the planning permission,

4) Additional conditions to address the following

65. There shall be no use of the access road to the IWMF except by traffic associated with the IWMF, Bradwell Quarry or to access adjacent agricultural land for agricultural purposes.

66. That should the IWMF not be brought into use within 5 years of commencement the operator will submit a plan of action for an alternative use or scheme of rehabilitation.

67. Obtain a bat licence from Natural England prior to commencement of works affecting Woodhouse Farm & Buildings.

68. Woodhouse Farm and buildings to be refurbished to a visitor/education centre within 6 years of commencement of the IWMF development

69. Upon finalisation of the details of plant as required by condition 19 an updated noise assessment shall be submitted.

5) Any other conditions where details have been previously been discharged the approved details are to be incorporated into the planning permission.

6) All other conditions of the planning permission ESS/55/14/BTE to be re-imposed.

BACKGROUND PAPERS

Planning Application & Environmental Statement ESS/34/15/BTE
Consultation replies
Representations

THE CONSERVATION OF HABITATS AND SPECIES REGULATIONS 2010 (as

amended)

The proposed development would not be located adjacent to a European site. Therefore, it is considered that an Appropriate Assessment under Regulation 61 of The Conservation of Habitats and Species Regulations 2010 is not required.

EQUALITIES IMPACT ASSESSMENT

This report only concerns the determination of an application for planning permission. It does however take into account any equality implications. The recommendation has been made after consideration of the application and supporting documents, the development plan, government policy and guidance, representations and all other material planning considerations as detailed in the body of the report.

STATEMENT OF HOW THE LOCAL AUTHORITY HAS WORKED WITH THE APPLICANT IN A POSITIVE AND PROACTIVE MANNER

The Minerals and Waste Planning Authority has engaged with the applicant prior to submission of the application, advising on the validation requirements and likely issues.

Throughout the determination of the application, the applicant has been kept informed of comments made on the application and general progress. Additionally, the applicant has been given the opportunity to address any issues with the aim of providing a timely decision.

LOCAL MEMBER NOTIFICATION

BRAINTREE – Witham North

BRAINTREE – Braintree Eastern

Appendix A

IWMF Planning permission ESS/55/14/BTE

Planning conditions and reasons

- 1 The development hereby permitted shall be begun before the 2 March 2016. Not less than 30 days prior notification of commencement of the development shall be given in writing to the Waste Planning Authority.

Reason: To comply with section 91 of the Town and Country Planning Act 1990 (as amended).

- 2 The development hereby permitted shall only be carried out in accordance with planning application ECC ref ESS/37/08/BTE (PINS Ref. APP/Z1585/V/09/2104804) dated 26 August 2008 (as amended) and drawing numbers:

Drawing number	Drawing title
1-1	Land Ownership & Proposed Site Plan
1-2	Proposed Planning Application Area
1-4	Access Road Details
1-5A	Typical Arrangement and Architectural Features of the eRCF
1-8	Schematic Arrangement of Woodhouse Farm
1-9	eRCF Simplified Process Flow
1-10	eRCF Integrated Process Flow
3-3	Site Plan Layout
3-8C	eRCF General Arrangement
3-12C	eRCF Detailed Cross-Sections
3-14A	eRCF Upper Lagoon & Wetland Shelf
3-16	Services Plan
3-19B	eRCF General Arrangement
8-6	Landscape Mitigation Measures
IT569/SK/06	Proposed Improvements to Site Access Road Junction with Church Road
IT569/SK/07	Proposed Improvements to Site Access Road Junction with Ash Lane
19-2B	Tree Survey
19-3B	The Constraints and Protection Plan
19-5	eRCF Base Plan Woodhouse Farm

As amended by Non-Material Amendment application reference ESS/37/08/BTE/NMA2 dated 4 September 2012, accompanied by letter from Berwin Leighton Paisner dated 29 August 2012 and email dated 18 September 2012 as approved by the Waste Planning Authority on 25 October 2012.

As amended by planning application reference ESS/44/14/BTE dated 5 August 2014, accompanied by letter from Holmes & Hills dated 5 August 2014, report entitled "Business development since obtaining planning permission" dated August 2014, report "Changes in the Case for Need since September 2009" dated August 2014 and letters from Honace dated 5 August 2014 and Golder Associates dated 4 August 2014 and granted by the Waste Planning Authority on 4 December 2014.

As amended by planning application reference ESS/55/14/BTE dated 12 December 2014, accompanied by letter from Holmes & Hills LLP dated 12 December 2014, SLR report "Justification for Removal of Fuel Sourcing Conditions" Rev 4" dated December 2014 and letter from Honace dated 5 August 2014 and Golder Associates dated 4 August 2014.

And in accordance with any non-material amendment(s) as may be subsequently approved in writing by the Waste Planning Authority and except as varied by the following condition(s):

Reason: For the avoidance of doubt as to the nature of the development hereby permitted, to ensure development is carried out in accordance with the approved application drawings, details (except as varied by other conditions), to ensure that the development is carried out with the minimum harm to the local environment and in accordance with MLP policies P1, S1, S10, S11, S12, DM1, DM2 and DM3, WLP policies W3A, W4A, W4B, W4C, W7A, W7C, W7G, W8A, W10B, W10E, W10F and W10G, BCS policies CS5, CS7, CS8 and CS9 and BDLP policies RLP 36, RLP 49, RLP 54, RLP 62, RLP 63, RLP 64, RLP 65, RLP 71, RLP 72, RLP 80, RLP 81, RLP 84, RLP 87, RLP 90, RLP 100, RLP 105 and RLP 106.

- 3 The total number of Heavy Goods Vehicle (HGV¹) movements associated with the excavation of materials (i.e. overburden, sand, gravel, and boulder clay) and import and/or export of materials associated with the operation of the completed Integrated Waste Management Facility (IWMF²) hereby permitted shall not exceed the following limits:

404 movements 202 in and 202 out per day (Monday to Friday);
202 movements 101 in and 101 out per day (Saturdays);

and shall not take place on Sundays, Public or Bank Holidays, except for clearances from Household Waste Recycling Centres between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority. No HGV movements shall take place outside the hours of operation authorised in Conditions 34 & 36 of this permission.

¹ An HGV shall be defined as having a gross vehicle weight of 7.5 tonnes or more

²IWMF shall be defined as the buildings, structures and associated plant and equipment for the treatment of waste at the site.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A and W10E and BDLP policies RLP 36 and RLP 90.

- 4 The total number of HGV vehicle movements associated with the construction of the IWMF (including deliveries of building materials) when combined with the maximum permitted vehicle movements under Condition 3 shall not exceed the following limits:

404 movements 202 in and 202 out per day (Monday to Sunday).

No HGV movements shall take place outside the hours of operation authorised in Condition 35 of this permission.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A and W10E and BDLP policies RLP 36 and RLP 90.

- 5 A written record of daily HGV movements into and out of the site shall be maintained by the operator from commencement of the development and kept for the previous 2 years and shall be supplied to the Waste Planning Authority within 14 days of a written request. The details for each vehicle shall include the identity of the vehicle operator, the type and size of the vehicle, the vehicle registration number, and an indication of whether the vehicle is empty or loaded.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A and W10E and BDLP policies RLP 36, RLP62 and RLP 90.

- 6 No development shall commence until full details of the extended access road and the layout of the cross-over points (both temporary and permanent) where the access road, both existing and proposed, crosses public footpaths, as shown on the Definitive Map and Statement of Public Rights of Way have been submitted to and approved in writing by the Waste Planning Authority. The extended access road and cross-over points shall be

implemented in accordance with the approved details.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A, W10E and W10G and BDLP policies RLP 36, RLP 49 and RLP 90.

- 7 No works on the construction of the IWMF shall commence until the access road extension and widening and all footpath cross-over points have been constructed.

Reason: In the interests of highway and pedestrian safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A, W10E and W10G and BDLP policies RLP 36 RLP 49 and RLP 90.

- 8 No vehicles shall access or egress the site except via the access onto the Coggeshall Road (A120 trunk road) junction as shown on application drawing Figure 1-2.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A, W10E and W10G and BDLP policies RLP 36, RLP 49 and RLP 90.

- 9 No vehicles shall park on the haul road between the A120 and Ash Lane.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A, W10E and W10G and BDLP policies RLP 36, RLP 49 and RLP 90.

- 10 No development or preliminary groundworks shall take place until a written scheme and programme of archaeological investigation and recording has been submitted to and approved in writing by the Waste Planning Authority. The scheme and programme of archaeological investigation and recording shall be implemented prior to the commencement of the development hereby permitted or any preliminary groundworks.

Reason: To ensure that any archaeological interest has been adequately investigated and recorded prior to the development taking place and to comply with MLP policies S10 and DM1, WLP policy W10E and BDLP policies RLP105 and RLP 106.

- 11 No airfield buildings and/or structures shall be demolished until the Level 3 survey in accordance with the 2006 English Heritage Guidance entitled "Understanding Historic Buildings: A Guide to Good Recording Practice" of the airfield buildings and/or structures has been completed.

Reason: To ensure that any heritage interest has been adequately investigated and recorded prior to the development taking place and to comply with MLP policies S10 and DM1, WLP policy W10E and in accordance with the NPPF.

- 12 No ecological management works affecting the moat adjacent to Woodhouse Farm shall commence until details of the proposed works and proposed water supply for the moat and a timescale for its implementation have been submitted to and approved in writing by the Waste Planning Authority. The works to the moat and water supply arrangements shall be implemented in accordance with the details approved.

Reason: To make appropriate provision for conserving and enhancing the natural environment within the approved development, in the interests of biodiversity and to protect the setting of the Woodhouse Farm Listed Buildings and in accordance with MLP policies S10 and DM1, WLP policy W10E, BCS policy CS5, CS8 and CS9 and BDLP policies RLP 80, RLP 84 and RLP 100.

- 13 No development shall commence until details of signage, telecommunications equipment and lighting within the Woodhouse Farm complex (comprising Woodhouse Farmhouse, the Bakehouse, and the listed pump together with the adjoining land outlined in green on Plan

1 (which can be found in the S106 agreement) have been submitted to and approved in writing by the Waste Planning Authority. The signage, telecommunications equipment and lighting shall be implemented in accordance with the details approved.

Reason: To protect the setting of the Listed Buildings and in the interest of visual amenity and to comply with MLP policy DM1, WLP policies, W8A W10B and W10E, BCS policy CS9 and BDLP policies RLP 36, RLP 65, RLP 90 and RLP 100.

- 14 No development shall commence until details of the design of the stack serving the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The details to be submitted shall include:
- (a) elevations, sections and plan views to appropriate scales and construction details;
 - (b) samples of the finish of the stack to provide a mirrored reflective surface; and
 - (c) information on the effect of weathering on the proposed stack material or how the effect of weathering is to be assessed by, for example the location on the site of examples of proposed materials which will be exposed to the elements and details of how the stack would be maintained to retain the quality of the surface of these materials.
- The stack shall be constructed and maintained in accordance with the details approved.

Reason: In the interest of visual amenity and to protect the countryside and to comply with WLP policies W8A, W10B and W10E and BCS policy CS5, BDLP policies RLP 36, RLP 65 and RLP 90.

- 15 No development shall commence until design details and samples of the external construction materials, colours and finishes of the external cladding of the IWMF buildings and structures, and design and operation of the vehicle entry and exit doors, have been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the details and samples approved.

Reason: For the avoidance of doubt, in the interests of visual and landscape amenity and to comply with WLP policies W8A, W10B, W10E and BCS policy CS5 and BDLP policy RLP 90.

- 16 Not used

- 17 No development shall commence until a management plan for the CHP plant to ensure there is no visible plume from the stack has been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the approved plan.

Reason: In the interest of visual amenity, to protect the countryside and to comply with WLP policies W8A, W10B and W10E and BCS policy CS5 and BDLP policies RLP 36, RLP 65 and RLP 90.

- 18 No construction of the IWMF shall commence until details of the green roofs proposed for the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The green roofs shall be implemented in accordance with the details approved.

Reason: In the interests of visual and landscape amenity and enhancement of ecological biodiversity and to comply with WLP policies W8A, W10B and W10E, BCS policy CS8 and BDLP policies RLP 80, RLP 84 and RLP 90.

- 19 No works to install process equipment or plant within the IWMF shall commence until details of the IWMF process layout and configuration have been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the approved details.

Reason: To ensure the layout and configuration of the process equipment and plant would not give rise to impacts not assessed as part of the application and Environmental Statement and to protect local amenity and to comply with WLP policies W8A, W10B and

W10E, BCS policy CS5 and BDLP policies RLP 36, RLP 62 and RLP 90.

- 20 No development shall commence until details of the construction compounds and parking of all vehicles and plant and equipment associated with the extraction of materials and the construction of the IWMF have been submitted to and approved in writing with the Waste Planning Authority. The details shall include location, means of enclosure and surfacing. The compounds and parking shall be implemented in accordance with the approved details.

Reason: In the interest of visual amenity, to protect biodiversity and the countryside and to comply with MLP policies S10 and DM1, WLP policies W8A, W10B, W10E and BCS policies CS5 and CS8 and BDLP policies RLP 36, RLP 65, RLP 80 and RLP 90.

- 21 No beneficial occupation of the IWMF shall commence until details of the provision to be made for and the marking out of parking spaces for cars, HGVs and any other vehicles that may use the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The parking provision and marking out shall be implemented in accordance with the approved details. The parking areas shall be retained and maintained permanently for manoeuvring and parking. No HGVs shall park in the parking area adjacent to Woodhouse Farm complex except in relation to deliveries for the uses at Woodhouse Farm complex.

Reason: In the interest of visual amenity, to protect biodiversity and the countryside and to comply with WLP policies W8A, W10B, W10E, BCS policies CS5 and CS8 and BDLP policies RLP 36, RLP 65, RLP 80, RLP 84 and RLP 90.

- 22 No development shall commence until a detailed scheme for foul water management, including details of the design and operation of the foul water system for the IWMF and Woodhouse Farm complex has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall be implemented in accordance with the details approved prior to the commencement of operation of the IWMF.

Reason: To minimise the risk of pollution on ground and surface water, to minimise the risk of flooding and to comply with WLP policies W4A, W4B, W8A and W10E and BLP policies RLP 36, RLP 62, RLP 71 and RLP 72.

- 23 No development shall commence until a detailed scheme for surface water drainage and ground water management, including details of water flows between the Upper Lagoon and the New Field Lagoon has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall be implemented in accordance with the approved details.

Reason: To minimise the risk of pollution on ground and surface water, to minimise the risk of flooding and to comply with WLP policies W4A, W4B, W8A and W10E and BLP policies RLP 36, RLP 62, RLP 71, RLP 72 and RLP90.

- 24 No excavation shall commence until a scheme of ground water monitoring for the site has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall identify the locations for the installation of boreholes to monitor groundwater and the frequency of monitoring. The scheme shall be implemented in accordance with the details approved prior to the commencement of excavations on the site.

Reason: To minimise the risk of pollution to ground and surface water and to comply with MLP policies MLP S1, S10 and DM1, WLP policies W4A, W4B, W8A and W10E and BLP policies RLP 36, RLP 62, RLP 71 and RLP 72.

- 25 No development shall commence until an investigation to identify whether the site is contaminated has been carried out and details of the findings including any land remediation and mitigation measures necessary should contamination be identified. The development shall be implemented in accordance with the approved details including any

remediation and mitigation identified.

Reason: To minimise the risk of pollution to ground and surface water, to minimise the risk of flooding and to comply with MLP policies MLP S1, S10 and DM1, WLP policies W4A, W4B, W8A and W10E and BLP policies RLP 36, RLP 62, RLP 64, RLP 71 and RLP 72.

- 26 The market de-inked paper pulp plant shall only source its heat steam and energy from the IWMF with the exception of periods of start-up and maintenance and repair of the IWMF.

Reason: To ensure the market de-inked paper pulp plant only remains at the site as a direct consequence of its co-location with the IWMF and to protect the countryside from inappropriate development and to comply with WLP policies W8A and W7G and BCS policy CS5.

- 27 No waste, except pre-sorted waste paper and card and Solid Recovered Fuel, shall be brought on to the site other than that arising from within the administrative area of Essex and Southend-on-Sea. Records indicating the origin of all waste consignments and tonnages brought to the site shall be kept and made available for inspection by the Waste Planning Authority for at least 2 years after receipt of the waste. The records shall be made available to the Waste Planning Authority within 14 days of a written request.

Reason: In the interests of the environment by assisting the Essex and Southend-on-Sea waste planning authorities to become self-sufficient for managing the equivalent of the waste arising in their administrative areas, ensuring that the waste is transported in accordance with the proximity principle, minimising pollution and minimising the impact upon the local environment and amenity and to comply with WLP policies W3A, W3C and W10E.

- 28 Deleted

- 29 No waste other than those waste materials defined in the application shall enter the site for processing or treatment in the IWMF plant. No more than 853,000tpa of Municipal Solid Waste and/or Commercial and Industrial Waste shall be imported to the site.

Reason: To ensure the scale of the facility would not give rise to impacts not assessed as part of the planning application and Environmental Statement and to protect local amenity and to comply with WLP policies W3A, W8A and W10E, BCS policy CS5 and BDLP policies RLP 36, RLP 62 and RLP 90.

- 30 Deleted

- 31 No waste brought onto the site shall be deposited, handled, stored, composted or otherwise processed outside the IWMF buildings and structures.

Reason: To ensure minimum disturbance from operations, to avoid nuisance to local amenity and to comply with WLP policies W3A, W8A and W10E, BCS policy CS5 and BDLP policies RLP 36, RLP 62 and RLP 90.

- 32 All waste materials shall be imported and exported from the site in enclosed, containerised or sheeted vehicles.

Reason: To ensure minimum nuisance from operations on local amenity, particularly litter and odour and to comply with WLP policies W3A, W8A and W10E, BCS policy CS5 and BDLP policies RLP 36, RLP 62 and RLP 90.

- 33 No vehicle shall leave the IWMF site without first having been cleansed of all loose residual mineral or waste materials from the vehicle's body and chassis.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with WLP policies W3A, W4C, W8A and W10E and BDLP policies RLP 36 and RLP 90.

- 34 No removal of soils or excavation of overburden, boulder clay, sand and gravel shall be carried out other than between the following hours:
- 07:00-18:30 hours Monday to Friday; and,
07:00 -13:00 hours Saturdays;
and shall not take place on Sundays, Bank and Public Holidays except for water pumping, environmental monitoring and occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.

Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and to comply with MLP policies S1, S10 and DM1, WLP policies W10E and W10F and BDLP policies RLP 36, RLP 62 and RLP 90.

- 35 The construction works (including deliveries of building materials) for the development hereby permitted shall only be carried out between 07:00-19:00 hours Monday to Sunday and not on Bank and Public Holidays except for occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.

Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and to comply with MLP policies S1, S10 and DM1, WLP policies W10E and W10F and BDLP policies RLP 36 RLP 62 and RLP 90.

- 36 No waste or processed materials shall be imported or exported from any part of the IWMF other than between the following hours:
07:00 and 18:30 hours Monday to Friday; and,
07:00 and 13:00 hours on Saturdays,
and not on Sundays, Public or Bank Holidays except for clearances from Household Waste Recycling Centres on Sundays and Bank and Public Holidays between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority.

Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and to comply with WLP policies W10E and W10F and BDLP policies RLP 36, RLP 62 and RLP 90.

- 37 No development shall commence until visible, legible and durable British Standard signs have been erected on both sides of the access road at the point where footpaths as shown on the Definitive Map, cross the access road to warn pedestrians and vehicles of the intersection. The signs shall read: 'CAUTION: PEDESTRIANS CROSSING' and 'CAUTION: VEHICLES CROSSING' and shall be maintained for the duration of the development.

Reason: In the interest of the safety of all users of both the Right of Way and the haul road and to comply with MLP policies S1, DM1, WLP policies W3A, W4C, W8A, W10E and W10G and BDLP policies RLP 36, RLP 49, RLP 62 and RLP 90

- 38 Except for temporary operations, as defined in Condition 42, between the hours of 07:00 and 19:00 the free field Equivalent Continuous Noise Level (LAeq 1 hour) at noise sensitive properties adjoining the Site, due to operations in the Site, shall not exceed the LAeq 1 hour levels set out in the following table:

Noise Sensitive Properties Location	Criterion dB LAeq 1 hour
Herring's Farm	45
Deeks Cottage	45
Haywards	45
Allshot's Farm	47
The Lodge	49

Sheepcotes Farm	45
Greenpastures Bungalow	45
Goslings Cottage	47
Goslings Farm	47
Goslings Barn	47
Bumby Hall	45
Parkgate Farm Cottages	45

Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.

Reason: In the interests of residential and local amenity and to comply with MLP policies S1, S10, DM1, WLP policies W3A, W8A, W10E, W10F and BDLP policies RLP 36, RLP 62 and RLP 90.

- 39 The free field Equivalent Continuous Noise Level (LAeq 1 hour) shall not exceed 42 dB(A) LAeq 1hour between the hours of 19:00 and 23:00, as measured or predicted at noise sensitive properties, listed in Condition 38, adjoining the site. Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.

Reason: In the interests of residential and local amenity and to comply with WLP policies W3A, W8A, W10E, W10F and BDLP policies RLP 36, RLP 62 and RLP 90.

- 40 The free field Equivalent Continuous Noise Level (LAeq 1 hour) shall not exceed 40 dB(A) LAeq 5min between the hours of 23:00 and 07:00, as measured and/or predicted at 1 metre from the façade facing the site at noise sensitive properties, listed in Condition 38, adjoining the site.

Reason: In the interests of residential and local amenity and to comply with WLP policies W3A, W8A, W10E, W10F and BDLP policies RLP 36, RLP 62 and RLP 90.

- 41 Noise levels shall be monitored at three monthly intervals at up to five of the locations, listed in Condition 38, as agreed with the Waste Planning Authority. The results of the monitoring shall include the LA90 and LAeq noise levels, the prevailing weather conditions, details of the measurement equipment used and its calibration and comments on the sources of noise which control the noise climate. The survey shall be for four separate 15 minute periods, two during the working day 0700 and 1830, and two during the evening/night time 18:30 to 07:00 hours, the results shall be kept by the operating company during the life of the permitted operations and a copy shall be supplied to the Waste Planning Authority. After the first year of operation of the IWFM, the frequency of the monitoring may be modified by agreement with the Waste Planning Authority.

Reason: In the interests of residential and local amenity and to comply with MLP policies S1, S10, DM1, WLP policies W3A, W8A, W10E, W10F and BDLP policies RLP 36, RLP 62 and RLP 90.

- 42 For temporary operations at the site in relation to the excavation of materials, the free field noise level at sensitive properties, listed in Condition 38, adjoining the site shall not exceed 70dB LAeq 1 hour, due to operations on the site. Temporary operations shall not exceed a total of eight weeks in any continuous 12 month period for work affecting any noise sensitive property. Not less than 5 days written notice shall be given to the Waste Planning Authority in advance of the commencement of any temporary operation. Temporary operations shall include site preparation, bund formation and removal, site stripping and restoration, and other temporary activity as may be agreed, in advance of works taking place, with the Waste Planning Authority.

Reason: In the interests of amenity and to comply with MLP policies S1, S10, DM1, WLP

policies W3A, W8A, W10E, W10F and BDLP policies RLP 36, RLP 62 and RLP 90.

- 43 No lighting for use during excavation of materials or construction of the IWMF within the site shall be erected or installed until details of the location, height, design, sensors and luminance have been submitted to and approved in writing by the Waste Planning Authority. The lighting details shall be such that no lighting shall exceed 5 lux maintained average luminance. The lighting details with respect to excavation of materials shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. The lighting details with respect to construction of the IWMF shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1900 Monday to Sunday and at no time on, Bank or Public Holidays except for security and safety lighting activated by sensors. The details shall ensure the lighting is designed to minimise the potential nuisance of light spillage from the boundaries of the site. The lighting shall thereafter be erected, installed and operated in accordance with the approved details.

Reason: In the interests of residential and local amenity and protection of the environment and in the interest of protecting biodiversity and in the interests of highway safety and to comply with MLP policies S1, S10, S12, DM1, WLP policies W3A, W8A, W10E and W10F, BCS policies CS5 and CS8 and BDLP policies RLP 36, RLP 62, RLP 65 and RLP 90.

- 44 No lighting for use during operation of the IWMF within the site shall be erected or installed until details of the location, height, design, sensors, times and luminance have been submitted to and approved in writing by the Waste Planning Authority. The lighting details shall be such that no lighting shall exceed 5 lux maintained average luminance. The lighting details shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. The details shall ensure the lighting is designed to minimise the potential nuisance of light spillage from the boundaries of the site. The lighting shall thereafter be erected, installed and operated in accordance with the approved details.

Reason: In the interests of residential and local amenity and protection of the environment and in the interest of protecting biodiversity, in the interests of highway safety and to comply with MLP policies S1, S10, S12, DM1, WLP policies W3A, W8A, W10E and W10F, BCS policies CS5 and CS8 and BDLP policies RLP 36, RLP 62, RLP 65 and RLP 90.

- 45 No development shall commence until a detailed phasing scheme for the construction of the access road for the creation of the retaining wall around the site of the IWMF and extraction of the minerals from the site has been submitted to and approved in writing by the Waste Planning Authority. The development shall be carried out in accordance with the approved phasing scheme.

Reason: In the interests of residential and local amenity and protection of the environment and in the interest of protecting biodiversity, in the interests of highway safety and to comply with MLP policies S1, S10, S12, DM1, WLP policies W3A, W8A, W10E and W10F, BCS policies CS5 and CS8 and BDLP policies RLP 36, RLP 62, RLP 65 and RLP 90.

- 46 No development shall commence until details of soil handling, soil storage and machine movements and the end use of soils have been submitted to and approved in writing by the Waste Planning Authority. The development shall be carried out in accordance with the details approved.

Reason: To minimise structural damage and compaction of the soil and ensure sustainable use of surplus soils and to aid in the restoration and planting of the site and to comply with MLP policies S1, S10 and DM1 and WLP policies W3A and W10E.

- 47 Unless otherwise agreed in writing by the Waste Planning Authority, no topsoil, subsoil and/or soil making material shall be stripped or handled unless it is in a dry and friable

condition³ and no movement of soils shall take place:
During the months November to March (inclusive);

- (a) When the upper 50 mm of soil has a moisture content which is equal to or greater than that at which the soil becomes plastic, tested in accordance with the 'Worm Test' as set out in BS1377:1977, 'British Standards Methods Test for Soils for Civil Engineering Purposes'; or
- (b) When there are pools of water on the soil surface.

³ The criteria for determining whether soils are dry and friable involves an assessment based on the soil's wetness and lower plastic limit. This assessment shall be made by attempting to roll a ball of soil into a thread on the surface of a clean glazed tile using light pressure from the flat of the hand. If a thread of 15cm in length and less than 3mm in diameter can be formed, soil moving should not take place until the soil has dried out. If the soil crumbles before a thread of the aforementioned dimensions can be made, then the soil is dry enough to be moved.

Reason: To minimise structural damage and compaction of the soil and to aid in the restoration and planting of the site and to comply with MLP policies S1, S10 and DM1 and WLP policies W3A and W10E.

- 48 No minerals processing other than dry screening of excavated sand and gravel or in the reformation of levels using Boulder or London Clays shall take place within the site.

Reason: To ensure that there are no adverse impacts on local amenity from the development not previously assessed in the planning application and Environmental Statement and to comply with MLP policies S1, S10, DM1 and DM3, WLP policies W3A, W8A and W10E, BCS policy CS5 and BDLP policies RLP 36, RLP 62 and RLP 90.

- 49 Any fuel, lubricant or/and chemical storage vessel whether temporary or not shall be placed or installed within an impermeable container with a sealed sump and capable of holding at least 110% of the vessel's capacity. All fill, draw and overflow pipes shall be properly housed within the bunded area to avoid spillage. The storage vessel, impermeable container and pipes shall be maintained for the duration of the development.

Reason: To minimise the risk of pollution to water courses and aquifers and to comply with MLP policies S1, S10 and DM1, WLP policies W3A, W4A, W4B, W8A, and W10E and BDLP policies RLP 36 and RLP 62.

- 50 Prior to the commencement of development, details of any temporary or permanent site perimeter fencing shall be submitted to and approved in writing by the Waste Planning Authority. The fencing shall be erected in accordance with the details approved.

Reason: In the interest of visual amenity, to protect the countryside and to comply with MLP policies S10 and DM1, WLP policy W10E and BCS policies CS5 and BDLP policies RLP 36, RLP 65 and RLP 90.

- 51 (a) No development shall take place until a scheme and programme of measures for the suppression of dust, have been submitted to and approved in writing by the Waste Planning Authority. The scheme shall include the suppression of dust caused by the moving, processing and storage of soil, overburden, stone and other materials within the site during excavation of materials and construction of the IWMF

(b) No beneficial occupation of the IWMF shall commence until a scheme and programme of measures for the suppression of dust, have been submitted to and approved in writing by the Waste Planning Authority. The scheme shall include:

- (i) The suppression of dust caused by handling, storage and processing of waste; and
- (ii) Dust suppression on haul roads, including speed limits.

In relation each scheme provision for monitoring and review.

The development shall be implemented in accordance with the approved schemes and programme for the duration of the development hereby permitted.

Reason: To reduce the impacts of dust disturbance from the site on the local environment and to comply with MLP policies S1, S10, DM1, WLP policies W3A, W8A and W10E and BDLP policies RLP 36, RLP 62 and RLP 90.

- 52 (a) No development shall commence until details of measures to control any fugitive odour from the excavation of materials and construction of the IWMF have been submitted to and approved in writing by the Waste Planning Authority the measures shall be implemented as approved.
- (b) No beneficial occupation of the IWMF shall commence until details of equipment required to control any fugitive odour from the handling/storage/processing of waste have been submitted to and approved in writing by the Waste Planning Authority. The details shall be implemented as approved.

Reason: In the interests of local amenity and to comply with WLP policies W3A, W8A and W10E and BDLP policies RLP 36, RLP 62 and RLP 90.

- 53 An ecological survey shall be undertaken such that it is no more than 2 years old by the date of commencement of development, this survey shall update the information contained within the Environmental Statement and submitted and approved on 27 July 2011 in accordance with condition 53 of planning permission Ref. APP/Z1585/V/09/2104804 (ECC ref ESS/37/08/BTE). The information approved was letter dated 19 May 2011 from Golder Associates with accompanying form Ecology report dated October 2010. The updated ecology report shall be used to assess the impact of the development and if required mitigation measures as set out within the Environmental Statement updated and amended to mitigate any impacts. Prior to the commencement of development, the ecological survey assessment of impact and any updated and amended mitigation shall be submitted to and approved in writing by the Waste Planning Authority. Any updated or amended mitigation shall be carried out in accordance with the approved details.

Reason: To make appropriate provision for conserving and enhancing the natural environment, in the interests of biodiversity and in accordance with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policy CS8 and BDLP policies RLP 80, RLP 81 and RLP 84.

- 54 No development shall commence until an habitat management plan including details of the proposed management and mitigation measures described in the Environmental Statement (amended) and the Habitat Management Plan dated May 2011 [as amended by emails from Golder Associates dated 13 July 2011 (18:22) and attachment and 18 July 2011 (15:30) and attachment] submitted in May 2011 in accordance with condition 54 of planning permission Ref. APP/Z1585/V/09/2104804 (ECC ref ESS/37/08/BTE) and approved on 27 July 2011 has been submitted to and approved in writing by the Waste Planning Authority. The amended plan shall include:

- (i) Description and evaluation of the features to be managed;
- (ii) Ecological trends and constraints on site that may influence management;
- (iii) Aims and objectives of management;
- (iv) Appropriate management options for achieving aims and objectives;
- (v) Prescriptions for management actions;
- (vi) Preparation of a work schedule (including a 5 year project register, an annual work plan and the means by which the plan will be rolled forward annually)
- (vii) Personnel responsible for implementation of the plan; and,
- (viii) Monitoring and remedial/contingencies measures triggered by monitoring.

The development shall be implemented in accordance with the approved amended plan.

Reason: To make appropriate provision for conserving and enhancing the natural environment, in the interests of biodiversity and in accordance with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policy CS8 and BDLP policies RLP 80, RLP 81 and RLP 84.

- 55 No demolition, excavation works or removal of hedgerows or trees shall be undertaken on the site during the bird nesting season [1 March to 30 September inclusive] except where a suitably qualified ecological consultant has confirmed that such construction etc. should not affect any nesting birds. Details of such written confirmations shall be sent to the Waste Planning Authority 14 days prior to commencement of the works.

Reason: To make appropriate provision for conserving and enhancing the natural environment, in the interests of biodiversity and in accordance with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policy CS8 and BDLP policies RLP 80, RLP 81 and RLP 84.

- 56 Only one stack shall be erected on the site to service all elements of the IWMF. The height of the stack shall not exceed 85 m Above Ordnance Datum.

Reason: In the interest of visual amenity, to protect the countryside and to comply with WLP policies W8A and W10E, BCS policy CS5 and BDLP policies RLP 36, RLP 65 and RLP 90.

- 57 No development shall commence until details and a timetable for implementation for all bunding and planting have been submitted to and approved in writing by the Waste Planning Authority. The planting details shall include species, sizes, spacing and protection measures. The bunding details shall include shape and angles of slope and depth of soils. The scheme shall be implemented within the first available planting season (October to March inclusive) following commencement of the development hereby permitted in accordance with the approved details and maintained thereafter in accordance with Condition 58 of this permission. The bunding and planting details and timetable for implementation shall be implemented in accordance with the approved details.

Reason: To comply with section 197 of the Town and Country Planning Act 1990 (as amended), to improve the appearance of the site in the interest of visual amenity, to protect the countryside and to comply with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policies CS5 and CS8 and BDLP policies RLP 36, RLP 62, and RLP 90.

- 58 Any tree or shrub forming part of the retained existing vegetation or the planting scheme approved in connection with the development that dies, is damaged, diseased or removed within the duration of 5 years during and after the completion of construction of the IWMF, shall be replaced during the next available planting season (October-March inclusive) with a tree or shrub to be agreed in advance in writing by the Waste Planning Authority.

Reason: To comply with section 197 of the Town and Country Planning Act 1990 (as amended), to improve the appearance of the site in the interest of visual amenity, to protect the countryside and to comply with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policies CS5 and CS8 and BDLP policies RLP 36, RLP 62 and RLP 90.

- 59 No development shall commence until details of tree retention and protection measures have been submitted to and approved in writing by the Waste Planning Authority. The details shall include indications of all existing trees, shrubs and hedgerows on the site and on the immediate adjoining land together with measures for their protection and the approved scheme shall be implemented in accordance with the details approved.

Reason: In the interest of visual amenity, to ensure protection for the existing natural environment, including adjacent TPO woodland and to comply with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policies CS5 and CS8 and BDLP policies RLP 80, RLP 81 and RLP 90.

60 No development shall commence until a scheme for the management and watering of trees adjacent to the retaining wall surrounding the IWMF for the period of the excavation of materials and construction of the IWMF, and throughout the first growing season after completion of construction where necessary, has been submitted to and approved in writing by the Waste Planning Authority. The management and watering of trees shall be carried out in accordance with the scheme approved.

Reason: In the interest of visual amenity, to ensure protection for the existing natural environment, including adjacent TPO woodland and to comply with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policies CS5 and CS8 and BDLP policies RLP 80, RLP 81 and RLP 90.

61 No beneficial use of Woodhouse Farm shall commence until details of the layout of the adjacent parking area including hard and soft landscaping and lighting have been submitted to and approved in writing by the Waste Planning Authority. The parking area shall be provided in accordance with the details approved prior to beneficial use of Woodhouse Farm.

Reason: To protect the setting of the Listed Buildings and in the interest of visual amenity and to comply with MLP policy DM1, WLP policies W8A and W10E, BCS policy CS9 and BDLP policies RLP 36, RLP 65, RLP 90 and RLP 100.

62 Prior to commencement of development, details of traffic calming measures designed to reduce the speed of traffic using the access road in the vicinity of the River Blackwater so as to protect potential crossing places for otters and voles, shall be submitted to and approved in writing by the Waste Planning Authority. The traffic calming measures shall be provided in accordance with the details approved.

Reason: To make appropriate provision for conserving and enhancing the natural environment within the approved development, in the interests of biodiversity and in accordance with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policy CS8 and BDLP policy RLP 84.

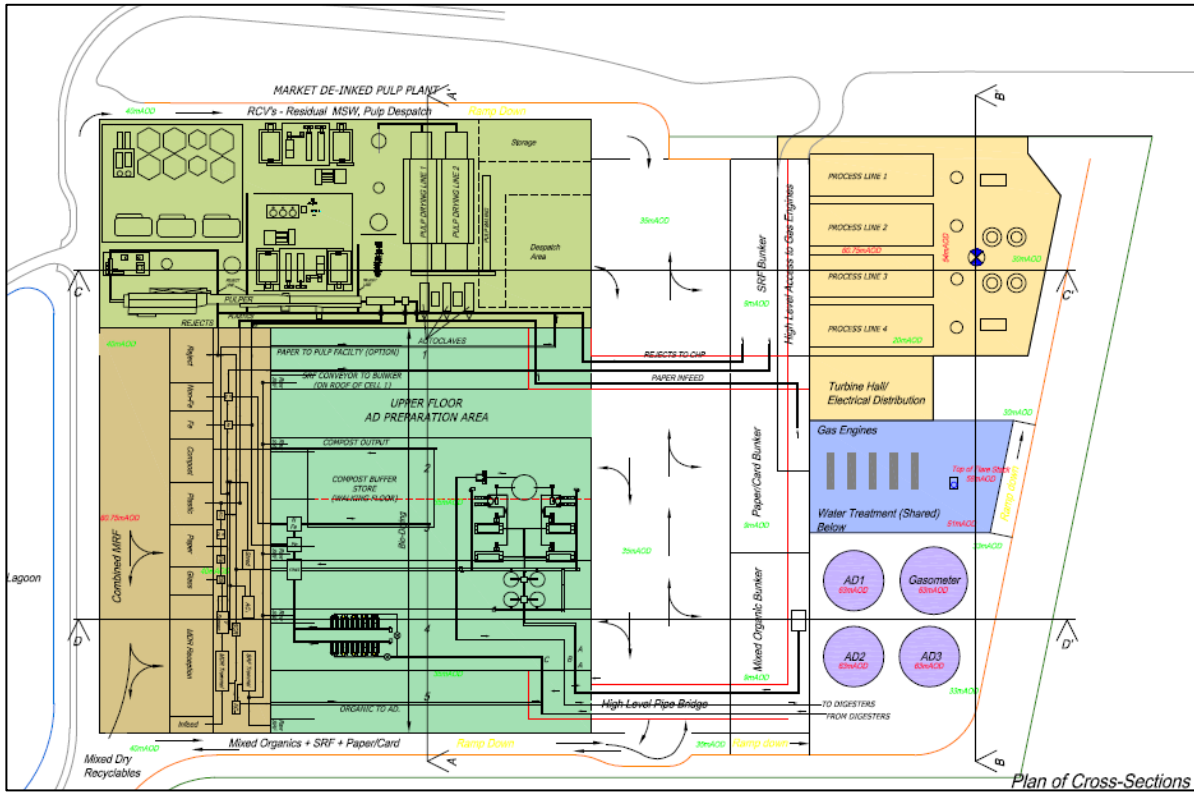
63 Prior to commencement of development, details of the lining and signing of the crossing points of the access road with Church Road and Ash Lane shall be submitted to and approved in writing with the Waste Planning Authority. The lining and signing shall require users of the access road to "Stop" rather than "Give Way". The details shall be implemented as approved.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1 and DM1, WLP policies W4C, W8A, W10E and W10G and BDLP policies RLP 36 and RLP 49.

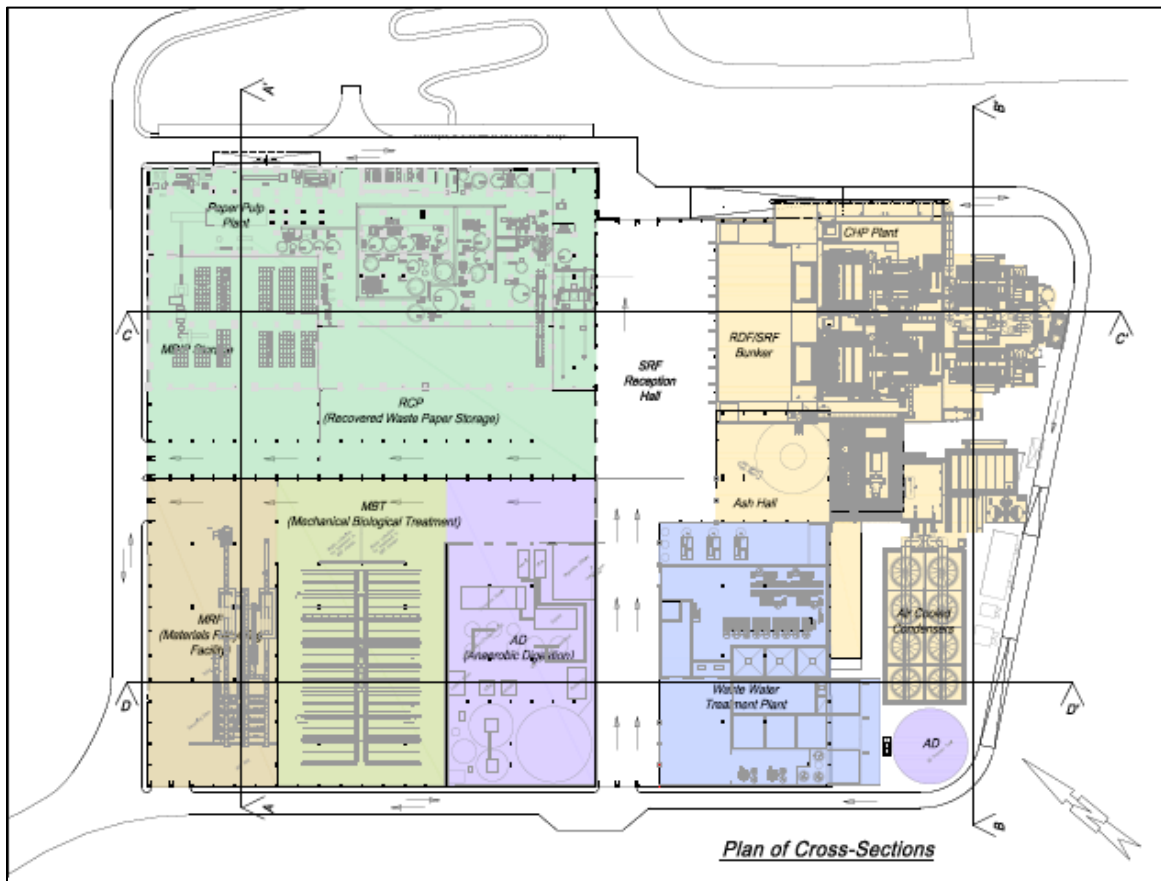
64 No development shall take place until a written scheme and programme of historic building recording for Woodhouse Farm and buildings (including Bakehouse & pump) has been submitted to and approved in writing by the Mineral Planning Authority. The written scheme and programme of historic building recording shall be implemented prior to the commencement of any demolition, works or conversion of any kind taking place at Woodhouse Farm and buildings as part of this permission.

Reason: To ensure that any heritage interest has been adequately investigated and recorded prior to the development taking place and to comply with MLP policies S10 and DM1, WLP policy W10E, BCS policy CS9 and BDLP policy RLP 100 and the NPPF.

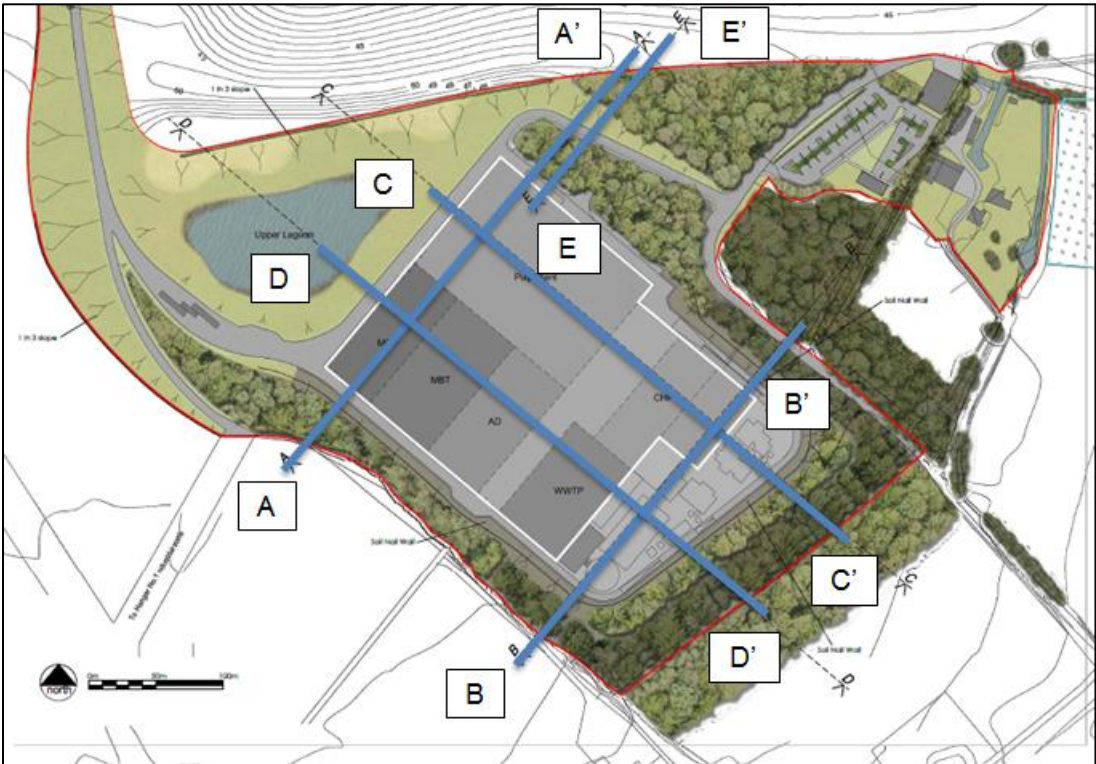
Indicative detailed layout for IWMF



Current Plan of Cross Sections

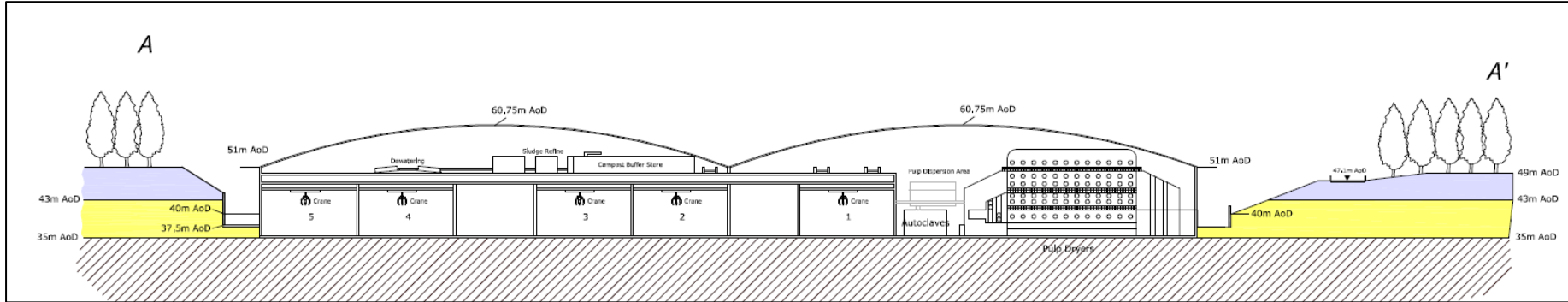


Location of cross sections

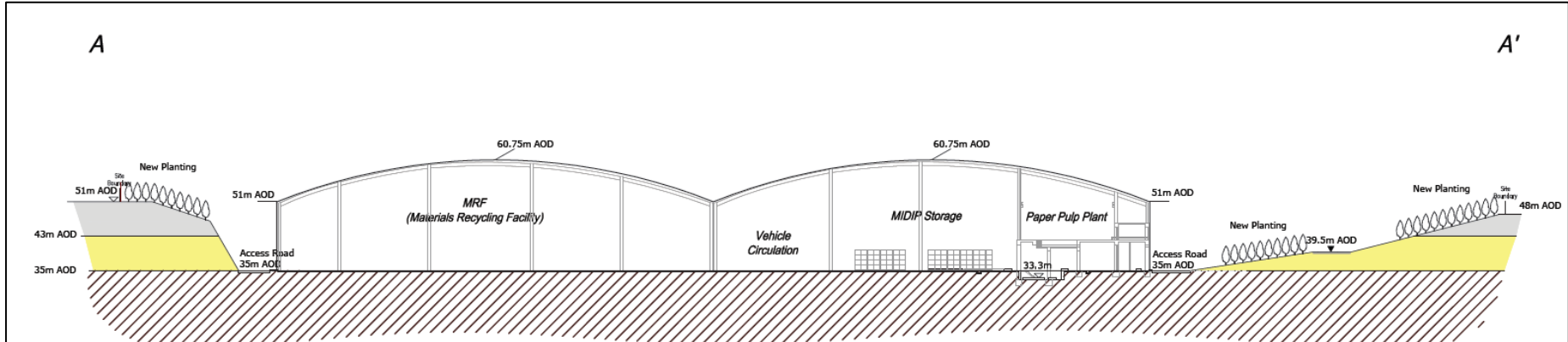


Cross Sections – A – A'

Permitted ESS/37/08/BTE

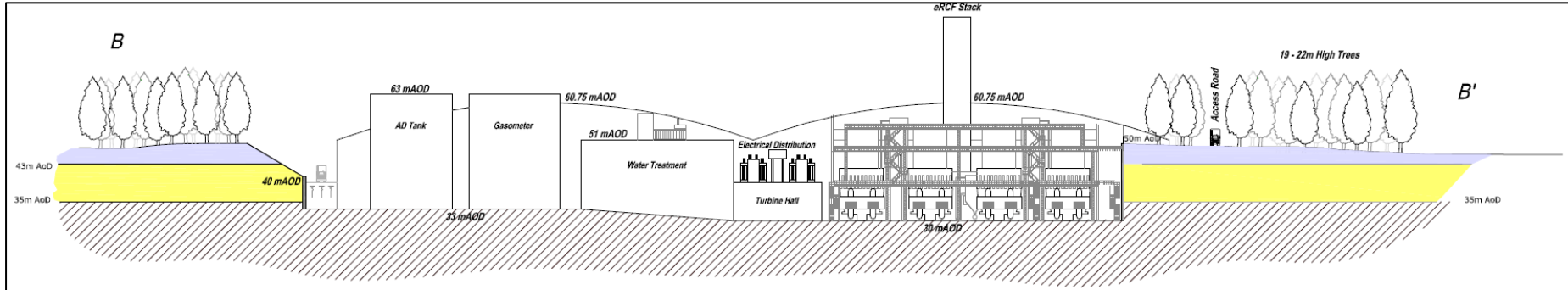


Proposed ESS/34/15/BTE

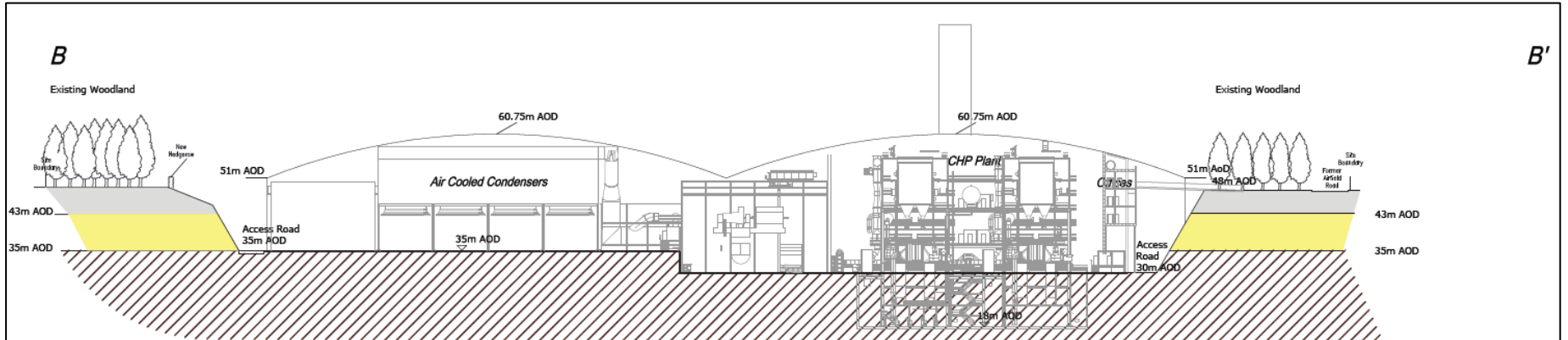


Cross Sections – B – B'

Permitted ESS/37/08/BTE

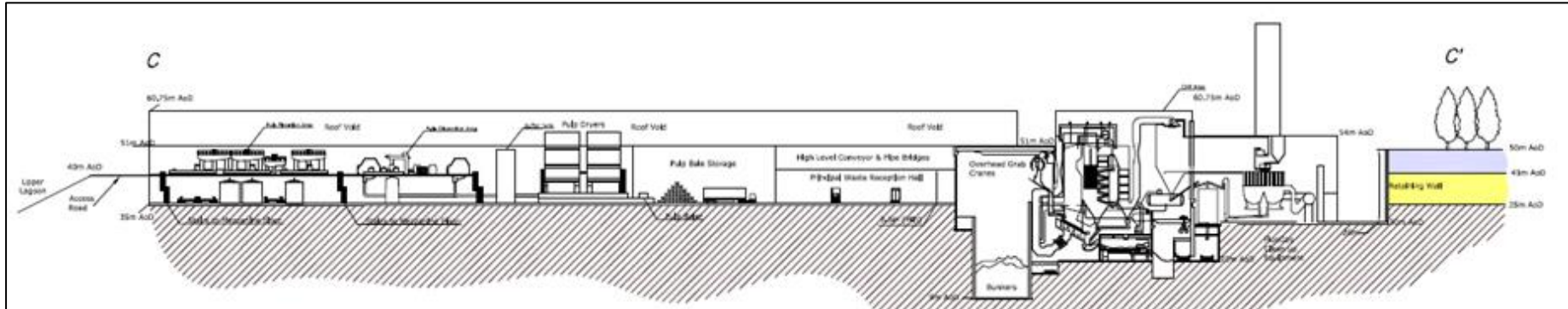


Proposed ESS/34/15/BTE

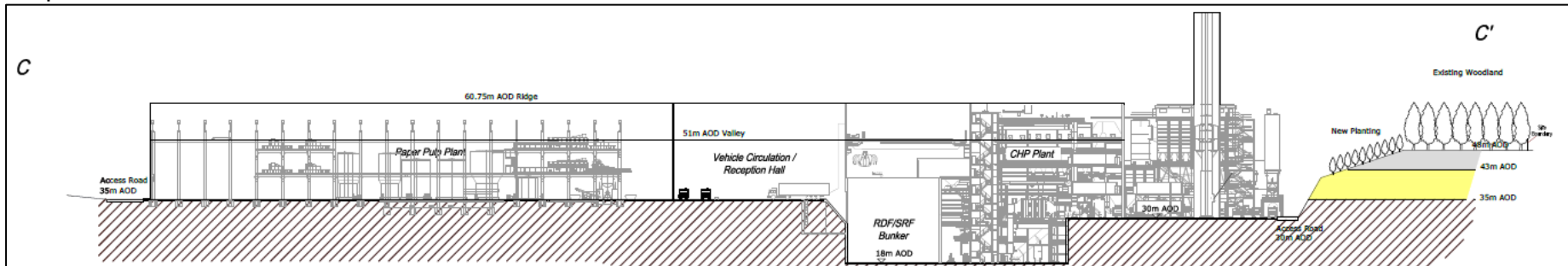


Cross Sections – C – C'

Permitted ESS/37/08/BTE

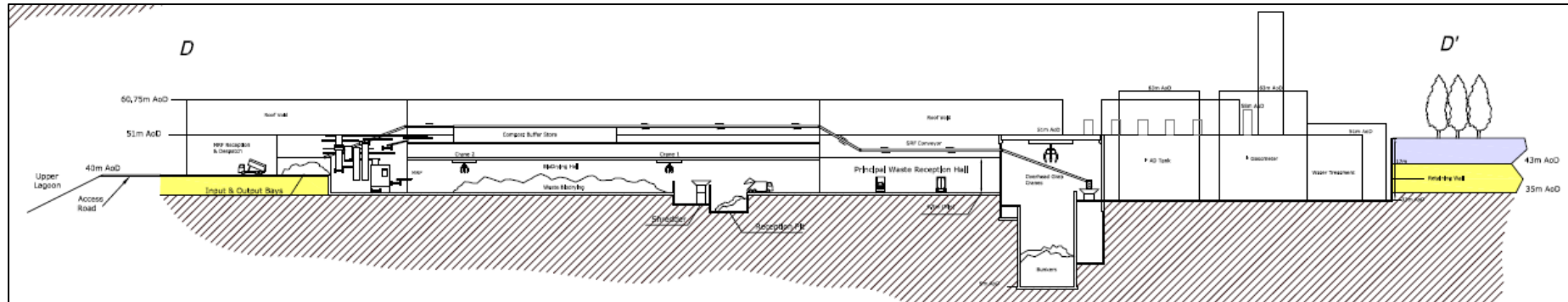


Proposed ESS/34/15/BTE

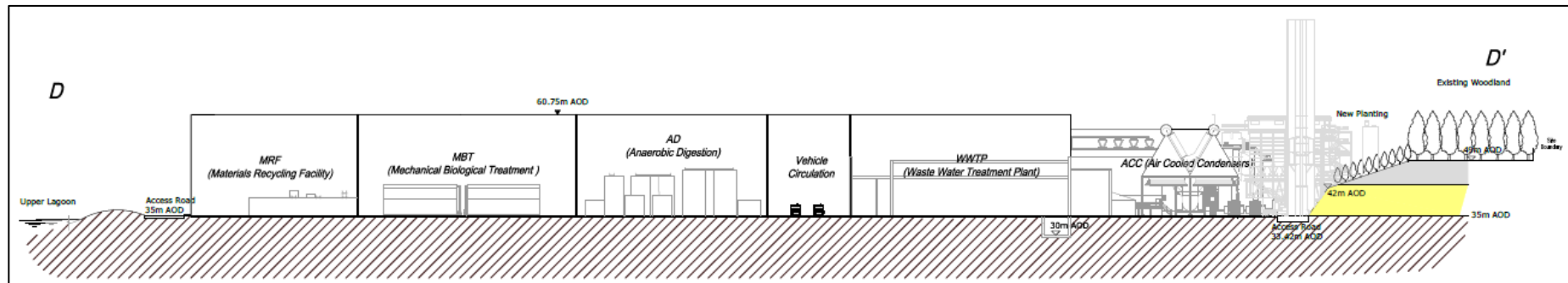


Cross Sections – D – D'

Permitted ESS/37/08/BTE

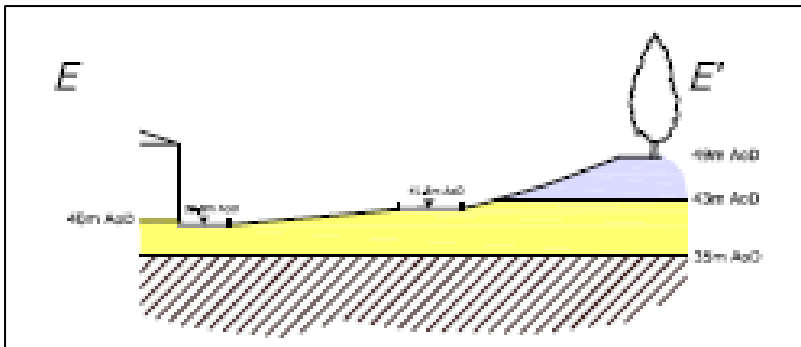


Proposed ESS/34/15/BTE

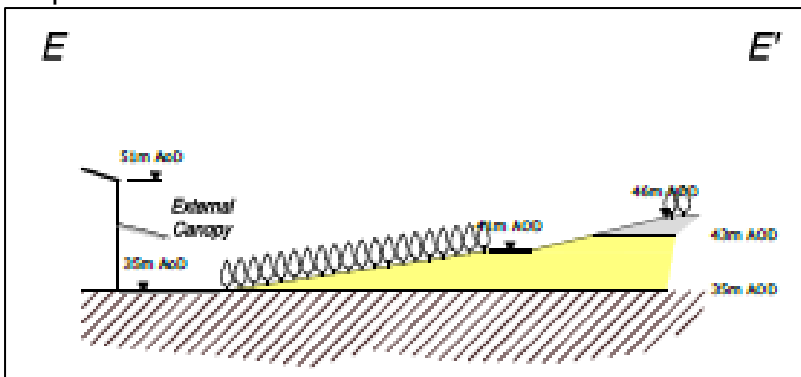


Cross Sections – E – E'

Permitted ESS/37/08/BTE



Proposed ESS/34/15/BTE



TRAFFIC MOVEMENTS

Figures in *italics* are those submitted as part of the application for the permitted IWMF (ECC ref ESS/37/08/BTE) and those in plain text are those submitted as part of current application. All movements are based on a 278 working days

IWMF Daily Imports (in full, out empty)

	ESS/37/08/BTE			ESS/34/15/BTE		
	<i>Total tonnage '000</i>	<i>Vehicle payload</i>	<i>One way movements per day</i>	Total tonnage '000	Vehicle payload	One way movements per day
MBT	250	24	38	170	25	25
MRF	100	15	24	150	25	22
AD	85	24	13	25	15	6
SRF/RDF	87.5	22	15	337.5	25	49
Waste paper	331	25	48	35	20	7
				120	20	20
CHP, MDIP & WWTP consumables				26.2	20	5
Total one way			138			134

IWMF Daily exports (in empty, out full)

	ESS/37/08/BTE			ESS/34/15/BTE		
	<i>Total tonnage '000</i>	<i>Vehicle payload</i>	<i>One way movement</i>	Total tonnage '000	Vehicle payload	One way movement
Rejects from MBT & MRF	42.5	25	7	1.5	22	1
Recyclables & compost	101.0	25	16	45.0	24	7
				8.8	20	2
Ashes & residues	75.1	25	12	147.0	25	22
				14.3	22	3
Recycled paper pulp	199.5	25	29	110.0	25	16
Sludge from MDIP				68.3	15	17
Total one way			64			68

Total one way			202			202
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The above demonstrates that no more than 404 movements per day total would be generated by the amended proposals.

Full comments of the Local Member for Witham Northern

The site has gone through a series of planning applications and variations from an original proposal for a "Recycling and Composting Facility" (RCF) to the "Evolution of the RCF" (eRCF), to the IWMF and now the S73 variation application. None of the previous versions of the facility have been started.

This history was added to with the additional Environmental information as requested by the Government in relation to the Appeal for another year - which was also required by ECC.

I did ask to see the opinion that ECC has apparently obtained as to why the current variation application was accepted as a "change to the conditions". This request was refused. Therefore as a Member with part of the site in the division I represent, I have been unable to explain to local residents and parish councils who have asked me, why this application has been deemed minor, when the implications of it would appear to be far from minor.

The S73 application seeks, along with other things, to remove the consented drawings in condition 2 of ESS/55/14/BTE with the intention of:

- (i) changing the internal layout of the plant,
- (ii) significantly altering the process balance,
- (iii) a slightly smaller plant footprint and related changes to the surrounding walls and access road.

This application is also accompanied by a series of condition discharge applications.

Given the "minor" status of the application, I note that the whole application (together with the condition discharge applications) consists now of 370 documents on the ECC website, some of which are duplicates. The documents are not set out in a way which makes for ease of understanding the different status of the documents and as ECC does not publish consultee responses, it is not possible to follow the application in terms of key responses as they are submitted.

I have had many requests by e-mail and telephone from interested persons and parish councils who are confused by the complexity of this application and further complication of the parallel other applications and the ongoing Appeal.

The S73 application does not, in itself attempt to substitute back in all the drawings being amended. Some drawings which appear to be current are labelled as "indicative or "preliminary". Even the updated Environmental information submitted at the end of 2015/early 2016 shows a number of key drawings as "indicative" or "preliminary" including 3-19 (front elevation), 3-12 (building and process layout sections), 3-8 (building process cross sections).

The applicant states that a condition 19 submission will fill in the missing drawings but does not say when this will be even whilst submitting information stating that the development will begin soon.

It appears (Statement of Support para 4.5) that the applicant may change the plant processes via condition 19 in response to the Permit application to the EA.

This raises uncertainty as to the final intentions and appears to be incompatible with the Intention to Start application ESS/55/14/BTE/LA2 which has been submitted to ECC. I have submitted separate comments regarding this application, but would in the context of the S73 application reiterate what appears to be a risk that the facility could be commenced without all the elements of the facility having been finalised and without contractors having been appointed. It is notable that the S73 application gives a good deal of internal detail regarding the incinerator/CHP, but much less for other elements.

Another area of uncertainty is that the updated Environmental information introduces new matters, most notably in relation to water (see below) which could affect the ability of the plant to operate at all, as a separate (and complex) new water licence from the EA would be required which may not be determined for many months, even while construction was underway.

The outcome of the facility Permit application and the outcome of the stated intention to apply for a new abstraction/discharge licence are unknown, both of which could significantly influence the physical detail and process functions of the plant in respect of water.

In total, how could construction of such a large and complex development begin when the plans and permit/licences are not finalised and agreed? Why has the level of uncertainty increased in the 6 years since planning permission was granted, instead of the normal closing down of uncertainty via finalisation of details and permitting in a timely way? In a report for Atkins, regarding the delivery of the Basildon MBT plant, they stated that "planning and permitting had been secured in good time".

The applicants refer to the need for flexibility and state that (Statement of Support para 4.1) the extant permission was "conceptual". This is not what the Inspector to the 2009 concluded. In his report he did support flexibility, but in order to "ensure that high rates of recycling and EfW can co-exist". The Inspector made an "on balance" decision that the evidence of high levels of recycling were benefits that carried weight to consider against the harm caused by the facility being built in the countryside.

The applicants refer to the facility producing "green" and renewable" power. They do not however qualify such statements by explaining that only the biodegradable fraction of waste can be classed as a fuel source for renewable energy. The Government is perfectly clear about this.

As stated above, the S73 application seeks not only to remove agreed plans and substitute them at a later date, but also to significantly alter the process balance of

the plant, which was a key consideration at the 2009 planning inquiry and subsequently the grant of consent by the SoS in March 2010.

The headroom capacity rises slightly in the S73 application. The permitted input capacity in respect of ESS/55/14/BTE is 853,500 tpa. The S73 application seeks to increase this to 863,700 tpa. Whilst a modest increase, this is a breach of condition 29 of the extant consent.

The permitted incinerator/CHP capacity is 360,000 tpa. The S73 application seeks to increase this to 595,000 tpa, an increase of 65%. The applicant argues that the increase is not so large based on energy considerations, but the normal way of assessing the capacity of processing elements is by tonnages, as has been the case throughout the planning history of this site.

The applicants signposted their intention to increase the incineration capacity in previous applications, including the "hinterland" application that removed geographical sourcing. However since the first iteration of the "eRCF" it has been clear that waste incineration was a dominant consideration with the applicants seeking to link the Rivenhall facility with the expected SRF outputs from Basildon. This is confirmed again in the S73 application where at para 6.6 of the Statement of Support, it is stated that "only" Rivenhall could take the Basildon outputs. The applicants go further at para. 8.11 by stating that the "furnace specification has been changed to take account of RDF specification including Essex County Council at Basildon."

It is an issue of commercial procurement as to where the SRF from Basildon goes in the long term. However, it is clear that Rivenhall is not the only plant that could take the material. There are operating plants within the region that could take the material and which state they have had discussions with ECC. In a written response to me, ECC confirmed that as well as Rivenhall (which of course is not built) the decision as to the timing of seeking a future longer term contract(s) took into account another plant within Essex that is proposed to be built at Thurrock, as well as other plants in the South East.

To keep the overall "headroom" capacity similar to the extant consent, the S73 application proposes to reduce all the recycling elements.

This relates notably to the paper pulping element of the facility (the main "anchor" for the Combined Heat and Power (CHP) function). The paper pulping capacity is proposed to be more than halved in the S73 application from 360,000 tpa to 170,000tpa. This is a decrease of 53%.

The other major elements of the plant that recycle waste are also proposed to be decreased in capacity. The AD capacity is proposed to be reduced from the extant consent of 85,000 tpa to 30,000 tpa. This is a reduction of 65%.

In terms of the MRF facility, the applicants state that this is to be considered as a processing line to produce RDF for the incinerator/CHP. It is not clear why this change is proposed but the effect is to further decrease the recycling performance

compared to the extant consent. The recycling output of the MRF in the S73 application is about 15% of capacity in tonnage terms.

All these matters raise questions about the changed process flows in relation to the Waste Hierarchy and the need to move waste management up the Hierarchy, not down.

The applicant states that ECC has provided for municipal waste treatment via a network of transfer stations, the Basildon MBT (under commission) and two AD plants for food waste – one operating at Halstead and one to be built at Basildon. The emphasis for the proposed facility at Rivenhall is therefore much more towards handling commercial waste.

The applicant has long stated that the non-hazardous commercial wastes they would be handling are similar to municipal wastes. ECC data shows that the commercial waste sector in Essex is larger than the municipal waste sector. Therefore it is unclear as to why waste should not be recycled at the same or a similar level as in the consented plant. Why for example, is it proposed to decrease AD capacity by 65% when there is a significant commercial food waste market?

In this matter, it is noted that the S73 application states that materials entering both the MBT and MRF units of the facility will be initially shredded. It is not normal practice to shred waste entering an MRF and some materials, due to the stated process flow, will go through shredding twice. This will reduce the effectiveness of recycling compared to a normal MRF set-up.

When the Inspector considered the facility at the Inquiry in 2009, he concluded that it did offer the prospects for moving waste management up the waste hierarchy and could maximise recycling. A question to be asked now is - would he come to the same conclusion with the S73 application?

The consented flows detailed in the Inspector's report were 853,500 tonnes per annum total site inputs, with 300,500 tpa recyclates (materials, paper pulp and compost) exported off site - a recycling rate of 35%.

The S73 version of the facility now proposes that of the (increased) 863,700 tpa inputs, 163,771 tpa would be exported as recyclates - a recycling rate of 19% (these figures and those below regarding in and out tonnage flows are derived from the Intermodal document).

The switch in process balance is such that in the S73 application the amount of material exported off site to landfill and as ash would be 231,054 tpa - significantly more than the recyclates. This includes the intention in the S73 application not to use the paper sludge internally as fuel for the incinerator/CHP (as in the extant consent), but to export it off site (68,000 tpa).

The “anchor” for the consented plant was a paper pulping unit of 360,000 tpa capacity. This would have used heat, steam and power from the proposed incinerator/CHP. In the proposed S73 version, the capacity of the pulping unit is more than halved. This raises questions about the energy balance of the facility.

Given the much larger incinerator/CHP and the much smaller paper pulping unit, will heat be wasted?

I referred above to the new matters introduced by the applicant in the updated Environmental information. The stated intention, which I note was denied by the applicants when I questioned it in the autumn of 2015, is to use the River Blackwater more intensively for abstraction and now (new proposal) for discharge as well. Effluent discharge was never part of the extant consent nor ever suggested by the applicants to the Inspector in 2009. Why has this issue emerged now? It is not clear, especially given the smaller pulping plant (the dominant user of water), why the proposed water use has changed so much.

This new matter in the planning considerations is in conflict with the Permit application to the EA, which was made in late 2015. Despite the S73 and the Permit documents both being drawn up in 2015, the Permit application maintains the proposal for a "Closed Loop" water cycle and categorically rules out discharge. Confusingly, the applicant refers in the S73 updated Environmental information to the proposal for abstracting more and discharging to the river as a "Closed Loop".

Whilst it is accepted that the permitting regime is separate from the planning regime, it is confusing and raises uncertainty if significant matters in the two regimes are treated in materially different ways.

The use of water at the facility is an important issue as many of the processes will require high and continuous 24/7 water resources/demand – notably the paper pulping unit. The extant planning consent with the "Closed Loop" water system needs "minimal" (quote from 2009 Inspectors Report) use of external water and "Zero Discharges" externally. The Inspector concluded in his Report based on the information submitted in evidence by the applicant that water would be derived largely from storage lagoons, internal recycling and rainwater.

Consistent with these conclusions, the applicant did obtain a limited (winter only and capped) licence to abstract (but not discharge) "top up" from the River Blackwater - but this has lapsed.

Confirmation of the proposed change to the water cycle is contained in the new document submitted within the updated Environmental information entitled "Forseeable Developments" (Jan 2016). This states that:

"The River Blackwater would be the primary source for industrial water use at the site".

The document also states that a new licence application to the EA, (to be submitted in the first quarter of 2016) is expected to ask for both increased abstraction (all year round) and discharge to the river.

References to the intention to both abstract and discharge to the river, along with pipe routes and a new abstraction/discharge point on the river are found in numerous documents including on noise, transport, ecology, archaeology and grid connection.

The facility would have a water turnover of thousands of tonnes per day (table 10.1 of the updated Environmental information suggests a total water turnover in/out of 3,609 cubic metres per 24 hour day). More intensive use of the river raises questions about the ecology of the river (it supports species such as otters and water voles), existing water uses such as agriculture, and the wider significance because Essex is the driest county in the UK. Essex already relies on a water transfer system in the summer as this county is not "net self sufficient". This transfer system includes use of the River Blackwater for water that after treatment enters the mains for human consumption.

The extant consent is based on a net loss of 121 cubic metres per day of water. The applicant now states in the updated Environmental information that this would rise to 497 cubic metres per day.

Despite all of the above, the water flow schematic drawing, listed as a current document on the ECC web page for the application, shows no discharge to the River Blackwater.

Historic development of the area has largely left the former WW2 Rivenhall Airfield and immediate surrounds to nature and farming, with the more recent Bradwell Quarry extensions, but with a requirement to restore to agriculture and habitat. The land immediately around the proposed facility includes habitat in the form of TPO woodland and old farm buildings.

Strong local populations of wildlife have built up in the area which are regularly recorded by local people and interest groups. Given the scale of the proposed facility it is unclear, especially in regards of impacts such as noise and light pollution, how the ecology will be maintained and not harmed. On or very near the site, there are great crested newts, at least 3 species of bat, otters (River Blackwater), brown hare, deer and many bird species including owls (several species), buzzards, kestrels, woodpeckers and red kites. Birds identified in the Gent Fairhead assessments (from the 2000s) included Red Listed bird species. GCN and all bats are protected in law.

Will the measures proposed to protect species actually work given the scale and impacts of the proposal? The applicant states that great crested newts have been removed from the site and fences erected to prevent re-entry. Have assessments been carried out to find out if the surrounding habitat has provided protection to these evicted protected animals? The applicant also confirms that roosting and nesting sites for barn owls, bats and breeding birds have been/will be removed. Where will they go? Does the surrounding habitat have the ability to support them, especially given the impacts this major industrial facility will bring? Reference is made to putting up boxes. But sensitive (including nocturnal) species will not use boxes if disturbed.

The updated Environmental information shows an earthworking sequence (again marked "preliminary") with a large stockpile of soil very close to the edge of the retained TPO woodland. It is standard practice to require that no storage of machines or materials should take place within the root protection areas of trees.

The applicant states in the updated Environmental information that the facility will not cause light pollution. The Honace document of July 2015 states that there will be a "low impact of light pollution" and that light sources will be "directed downwards".

However, the submitted construction lighting details (condition 43) show a large number of badly designed lighting units with very poor directional control. These comprise "bog standard" non-asymmetric floodlights, illustrated facing sideways and such that 50% of output would go into the sky. Bulkhead lights are shown (presumably for the accommodation areas) which again, are "bog standard" design with no regard for amenity or ecology. They are sometimes referred to as "glare bombs" as they can be seen from long distances.

Permanent lighting is proposed at the listed Woodhouse Farm (where there are bat roosts in the roof space and in nearby agricultural buildings). Woodhouse Farm and the associated buildings (owned by GF) are proposed to be redeveloped as part of the facility. As well as the immediate surrounds of the farm, the ecology of the adjacent areas of TPO woodland would be at risk of harm unless the lighting is very carefully designed and controlled. Whilst the LED column mounted lights (subject to being angled at zero tilt (i.e. flat to ground) are acceptable, the proposed bollard lights have a variant illustrated in the documents with no baffling. They would be seen as high glare sources at distance unless they include effective internal baffling to angle the light output downwards. It would also be essential to protect sensitive species and the locally dark landscape character of the airfield that the conditioned hours of use were complied with.

In respect of the proposed permanent lighting for Woodhouse Farm and the car park area (and the construction lighting discussed below) it is important to note that the colour of the light sources is a vital consideration when minimising light pollution in a dark skies area. White light has a far greater light pollution impact than "cooler" colours - i.e. more yellow colours. White LEDs in particular have a significant light pollution potential due to being "blue rich" and there is some evidence that they are detrimental to human health and wildlife. These units should be avoided.

The construction layout shows a large number of "light masts". It is difficult to see how the industrial development of the site, in a currently quiet, rural and peacefully dark (at night) environment will do anything other than cause harm to the bat populations that feed and roost at the site. The details state that the lights will be on 6m columns and that some of these will be positioned such that the heads will be above local ground level. The discussion from the applicant about light levels diminishing with distance is of course an obvious fact, but this does not address the fact that these units would be visible over long distances if above local ground level and will cause sky glow even if below local ground level. The airfield is a very dark area where even porch lights can be seen from houses right across the width of the airfield. The applicant discusses lux levels similar to moonlight around the proposed lit area at Woodhouse Farm (0.2 lux quoted). Current ambient light levels on a starlit moonless night are less than 0.01 lux, as I have routinely measured.

So the design and height of all lighting, including the construction lighting, needs to be carefully assessed in the context of the area (not desktop) and the hours of use strictly adhered to to avoid significant harm being caused.

It is noted that no details of operational lighting for the facility itself (condition 44) have been submitted.

By acknowledgment of the applicant Rivenhall Airfield is a “Dark Skies” area - where good views of the natural night sky can be obtained and appreciated by local people.

Paragraph 125 of the NPPF states that

“By encouraging good design, planning policies and decisions should limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation.”

A key planning issue is the incinerator stack height. The extant consent allows for a 35m stack (above local ground level). The listed buildings at Woodhouse Farm are close to the proposed waste plant – less than 200m. Local and national policy has consistently pointed to the importance of protecting designated heritage assets and the need to consider the degree of harm from any proposed development that may affect listed buildings.

However the degree of harm to the setting of the listed buildings at Woodhouse farm cannot be known until the final stack height is known.

The height of the stack will not be certain until the EA completes its consideration of the Permit application. Determination is not expected for several months. The 35m stack that Gent Fairhead states it will build is barely half the height of typical stacks for installations of the type and size proposed (source: FoI request to the EA for a complete list of incineration facility stack heights in England).

For instance, the incinerator stack height at the Great Blakeney site near Ipswich, (which is a smaller capacity plant than that proposed at Rivenhall) is 81.5m (as required by the EA). A similar stack (if required by the EA at Rivenhall) would be seen as a large structure above the listed buildings at Woodhouse Farm – approximately half way up the sky to the zenith as seen from the front door of the farm.

At the 2009 Inquiry, the stack height was a key consideration in terms of the listed buildings and in terms of landscape impact in the countryside. The extant planning consent requires (by condition 14) that all details of the stack should be submitted prior to commencement of development and shall be maintained as such. Yet if the EA does require a much higher stack there is a risk that the applicant could have commenced building (on the basis of a 35m stack) and that any requirement for a higher stack would require the applicant to go back to ECC for another planning application, both in breach of the extant planning conditions and at the risk of increased harm to the listed buildings and the countryside.

The Inspector to the 2009 Inquiry (and subsequently, the SoS) were both clear that all details of the stack had to be agreed prior to commencement to avoid risk with regard to impacts.

The height limitation that the applicants themselves offered in terms of a 35m stack height, (and which the Inspector and SoS agreed with in relation to the extant consent) amounts to an agreed height restriction, which is a criteria set down in the NPPfW.

Whilst control of emissions to air are largely an issue for the permitting process, information is supplied within the S73 application. The Human Health Risk Assessment data can only be considered as uncertain due to the fact that the EA will determine what is acceptable, the stack height, etc. It is noted that some of the levels for metals are potentially high and residents have raised concerns with me about this. Whilst the applicants rely on a modelled "worst case" location for emission levels in a field to the north east of the plant, in reality a "real world" worst case could be abnormal emissions in adverse weather conditions (eg temperature inversion) being blown towards Silver End where several thousand people live about a mile from the plant (some closer than that).

Having studied the dispersion model used, I remain concerned that it appears to be simplistic. It appears to have only 3 elements - a simple terrain (agricultural land of defined roughness), an oblong block for the plant, and the stack.

In reality the facility would be surrounded on 3 sides by woodland, with tree heights up to 20m (within 15m of the top of the stack). There are also large changes in ground levels due to the nearby quarry and the building itself would not be a simple oblong, but would be a twin arched roof with the long axis almost at right angles to the most prevalent wind direction, which is south west. This raises questions as to whether the plume could be grounded by eddy currents over the building and the woodland.

Condition submissions

Due to the vast amount of documentation (which has been added to and changed during the consultation period) I have not had time to go through all the documents, including all the condition applications and I know many other people have had the same experience. However I noted that once again, the word "preliminary" appears - such as in the condition 6 drawings which also refer to further information to be submitted "in the detailed design". How can condition discharge details be termed "preliminary"? The whole purpose of such submissions is to give final and certain details to the LPA.

Notes on apparent errors that appear in the application:

The application form at Q7 states incorrectly that the site cannot be seen from PRoWs. It can in fact be seen at close proximity from PRoW Kelvedon 8.

The Statement of Support states that by moving the stack in the S73 application to the north east, this takes it further away from PRoW Kelvedon 8. This is incorrect - it moves it closer.

The applicant continues to state that the only access will be via the haul road to the A120. However, the S73 plans clearly show (as previous plans have done over many years) an access road linked to Woodhouse Lane at the point where PRow Kelvedon 8 diverts towards Woodhouse Farm. Given that ECC has allowed access via Woodhouse Lane in relation to the A3 and A4 minerals extension to Bradwell Quarry, there is a risk that this access could be applied to be used for part of the waste site traffic, or as a "second access" when the A120 is blocked. If this took place, due to restrictions on some local roads, it would mean HGVs would have to come through Rivenhall and/or the Conservation Area in Silver End. Drawing 3-3B shows the access road to Woodhouse Lane.

The Statement of Support at para. 7.8 states that paper pulp sludges will go to the incinerator/CHP. But the transport assessment (Intermodal) states that the sludge will be exported off site.

Representations

Observation	Comment
APPLICATION TYPE & DETAIL	
Another attempt to vary the planning consent granted in 2010, which was itself a variation of a prior permission.	See appraisal section A
Objection on the grounds of documentation. Documentation cited in the letter from the agent is not present and as such the application cannot be fully and completely evaluated.	All documentation was available on the ECC website, although it is understood it was slow at times.
Applicants should provide information in a more accessible format or ECC should provide commentary and/or arrange further public engagement events to demonstrate full public consultation has been carried out.	Consultation was in accordance with Statement of Community Involvement
Essex County Council is in danger of bringing itself into disrepute by expecting lay people to understand the complex language used in planning applications of this kind. Proposal will have an impact on the lives of residents living in Coggeshall, Kelvedon, Silver End and the surrounding areas for many years to come. The least that the County Council should do is to write to all residents in plain English and enclose a direct link to the documents on the website.	See above and appraisal section A
Very difficult to review, understand and assess the new information provided.	See appraisal section A
Proposal is a new application being disguised as a variation, which is not acceptable. Applicant is abusing the planning system.	See appraisal section A
Witham Town Council recommends refusal on the basis that the impacts of the changes proposed are so significant as to warrant a fresh application.	See appraisal section A
Fresh application required	See appraisal section A
Secretary of State for Communities and Local Government granted planning permission in March 2010. It took until August 2014 for the applicant to seek extension of the period for commencement. In January 2015 the applicant sought removal of conditions 28 and 30, which restrict geographical source of solid recovered fuel, waste paper and card. Now the applicant seeks amendment to the layout of the integrated waste management facility.	See appraisal section A
Not be possible to support an agreed start date on a project where the design of the plant is still not in the public domain.	See appraisal section A
There are a significant number of changes to the proposed development that have yet to be agreed. Change and uncertainty creates further distress to those people who will be affected by this project.	See appraisal section A
Objection on the ground of planning history. Proposal represents an incinerator that was originally rejected. The amendment represents significant Planning Creep. Proposal is now different size and purpose, tending towards to the original refused application. Not a minor change to the small incinerator	See appraisal section A

concession allowed specially for the generation of power for on-site consumption.	
In March 2010 the applicant accepted the Secretary of State for Communities and Local Government decision – now seek to amend plans and restrictions. Fresh planning application should be required to due changes to the original planning application.	See appraisal section A
Planning process has been long and drawn out.	The application has been subject to two periods of consultation
Queries why the recycling plant is no longer required when recycling is being encouraged.	
Concerned that the application was accepted as a “variation” by ECC when proposal is a fundamental change to the function of the plant.	See appraisal section A
Queries legality of amendment.	See appraisal section A
Inspector and Secretary of State would have not supported what is now being proposed.	See appraisal
Applicant proposes indicative drawings, instead of drawings previously detailed and agreed. This is inconsistent with the condition that planning is to commence by March 2016.	See appraisal section A
Understood that ECC procured legal advice about whether the application should be regarded as a variation of the previous application, which suggests ECC uncertainty.	See appraisal section A
The planning system is being abused.	See appraisal section A
Queries end plans for Rivenhall and continued “planning creep”.	See appraisal section A
‘Planning creep’ for 16 years plus.	See appraisal section A
Applicant is already had over 5 years to build on this site.	The planning permission is time limited and if not implemented will eventually expire
No internal processing detail.	See appraisal section A
Full public consultation required.	Application subject to consultation in accordance with the adopted Statement of Community Involvement
Insufficient consultation has been undertaken with the local community	See above
21 days to responds to application seems grossly inadequate.	See above
The documents relate to an earlier consultation and due to proposed changes, the prior consultation materials are not applicable.	The historical Environmental Statement was relevant to the consideration of the application.
The reports are outdated and not enough information.	See above
Full and proper inquiry should be undertaken.	It is matter for the SoS as whether the application is “called in”
Requests Government “calls in” application.	See above
Less process information than in the original application – unsafe to grant permission for larger facility.	See appraisal section A
Application has been hurried through to cover up the risks and impact on the local community.	Application has been with ECC since August 2015 and subject of 2 periods of consultation.
Applicant has not commenced development and waited until the last minute to apply for changes in an effort to ask for larger capacity for the incinerator.	The application was valid and therefore could not refuse to accept.
NEED	
Concerns re reduction in recycling and plan to bring in	See appraisal section B

rubbish from any geographic location.	
Concerns re reduction in recycling and plan to bring in rubbish from any geographic location.	See appraisal section B
Threat of proposal has been hanging over residents for more than 10 years – still unresolved.	See appraisal section B
Increase the overall burn capacity by 98% from that originally requested.	See appraisal section B
Proposed tonnage to be burnt at Rivenhall is far in excess of the original RCF and the revised eRCF.	See appraisal section B
Proposal is not a recycling plant and the applicant is not investing in green and renewable energy – misleading and disingenuous to state otherwise.	See appraisal section B
Preference for much more recycling and no incineration	See appraisal section B
Proposal undermines the decision by the government inspector as proposal is for a much greater amount of material to be incinerated than the inspector considered.	See appraisal section B
The capacity of the plant now exceeds the total waste we produce in Essex, in breach of the 'proximity principle'.	See appraisal section B
Requests reconsideration as to how the site can deliver the recycling strategy for the good of the county and commission a service from a supplier that is truly fit for the future of the planet.	See appraisal section B
Removal of geographical restrictions for waste collection and delivery is contrary to the concept of waste sufficiency expressed in recent Essex Waste Plan consultation.	See appraisal section B
Queries why rural villages should take on waste from elsewhere.	See appraisal section B
Proposal is morally incorrect.	See appraisal section B
Proposed size is unnecessary.	See appraisal section B
Braintree District has a good recycling record and burning waste is counter to the ethos of recycling	See appraisal section B
No need – proposal will benefit only the developers.	See appraisal section B
No need to develop such a large site with capacity many times larger than needed to deal with waste in North Essex, particularly as Essex is demonstrating good progress with recycling.	See appraisal section B
Alternative sights away from settlements have to be considered.	See appraisal section B
Queries need for incinerator in the UK re existing and proposed facilities.	See appraisal section B
Emphasis on burning waste rather than recycling, goes against national and European policies aimed at reducing and recycling waste.	See appraisal section B
Incinerator nearby in Ipswich.	See appraisal section B
As the local area considerably exceeds the recycling targets, the plant would be burning waste from area where they don't make the same effort and given time will be an incinerator for London waste.	See appraisal section B
If there is a need for an incinerator within Essex there are other areas, such as Thurrock or Bradwell Power Station, that are far more suitable for an incinerator	See appraisal section B
Waste reduction and recycling is the only solution, which would also save valuable natural resources.	See appraisal section B
Queries whether this is a sustainable policy for the District or the County.	See appraisal section B

Concerns that the proposed increase in the burning levels will reduce recycling. Reuse/recycle should be first approach.	See appraisal section B
Opposes burning with the reduction in MBT and AD plants.	See appraisal section B
Queries paper pulping unit reduction.	See appraisal section B
Incineration destroys resources forever.	See appraisal section B
Plant will clearly need to be "fed" for decades to make it viable, with material brought from further and further afield.	See appraisal section B
Queries whether the proposal contravenes local, national and European policies aimed at reducing and recycling waste. Public statement on the legal position requested.	See appraisal section B
Proposal is inappropriate and goes beyond what was originally approved – waste now being taken from outside of area and increased incineration.	See appraisal section B
Council appearing to side with the developer.	Each application has to be considered on its individual merits.
Objection on the grounds of commercial viability. There are other, more commercially viable alternative regional incinerators with capacity. Intention to use this facility to address the Basildon SRF waste. However, if GF are not given this contract the commercial viability is further questioned. New Nuclear plant at Bradwell – queries need to use an incinerator to generate power.	See appraisal section B
Intention to raise a FOIA request to understand the budgetary assumptions and projections of Essex County Council. ECC has made significant budgetary assumptions leading to support of the continued expansion of the Rivenhall site.	The WPA has not involvement in the decision as to suitable contractor for disposal of waste.
Conflicting public statement regarding the extent of proposed amendments. Figures provided by Councillor James Abbott in the Braintree and Witham Times (3 September 2015) suggest incineration would increase to 595,000tpa (a 98% increase from the original 300,000tpa and 65% from the most recent permission) and recycling would be decrease from 360,000tpa to 170,000tpa.	See appraisal section B
Proposal will be one of the biggest in England – burning 595,000tpa of waste.	See appraisal section B
Proposed capacity to burn 595,000 tonnes of waste per year is a 65% increase beyond that permitted in 2010 and almost 100% more than that permitted by the original permission.	See appraisal section B
Closed loop relationship between various types of waste processing is compromised by the removal of paper sludge by road instead of by incineration.	See appraisal section B
Nothing showing that best available technology will be used.	Best Practical Environmental Option now not a requirement
Objects due to Essex County Council paying private companies £15 million a year to incinerate 200,000 tonnes of household waste – causing air pollution and adding to climate changing.	See appraisal section B
Demands a sustainable Essex waste strategy based on at least 70% recycling by 2020.	See appraisal section B
Queries why the land cannot be used for mineral	Each application has to be considered

extraction. Has been accepted as part of the mineral extraction plan and at least in 20 years the land can be returned to nature by creating lakes etc.	on its individual merits
Benefits of proposal, such as recycling, are outweighed by the negative impact.	See appraisal
Requests that the efficacy of the proposal be considered and that any decision is morally, ethically and environmentally right.	See appraisal section B
At the second Essex & Southend Waste Local Plan Public Inquiry in November 1999 ECC were very much in favour of development – despite objections re air quality being affected by the level of dioxin (a cancer causing agent) and the increased traffic levels on the already crowded A120, in addition to the approved mineral site at Bradwell	See appraisal section B
Not 'green' as about half a million tonnes of carbon dioxide will be released into the atmosphere every year.	See appraisal section B
HIGHWAYS & ACCESS	
Proposal will result in detrimental changes in the locality – particularly from traffic.	See appraisal section D
Insufficient information on additional traffic movements to the A120.	No additional HGV traffic movements are proposed and movements are limited by condition
Objects on heavy traffic increase.	See above
The A120 is already overloaded with traffic, particularly heavy haulage and other commercial traffic.	See above
Increased traffic would prevent residents from accessing work, school, towns and villages safely and without stress and encumbrance.	See above
Object to the proposed increase in incinerator capacity by 65% and consequent need to export ash by road.	See above
Increased accidents at Coggeshall to Earls Colne crossing on A120.	See above
Potential for deadlock on roads when proposed housing is completed.	See above
Excludes van usage of roads from internet ordering.	See above
The B1018 is already a very busy and noisy road from 4:30am to 7:30pm – proposed increase in traffic will have a detrimental effect on the surrounding roads and rural environment.	See above
A120 often closed due to accidents, diverting traffic through Coggeshall, Feering, Kelvedon, Bradwell and Silver End.	See appraisal section D
Potential for increased levels of HGV movements affecting Witham	See appraisal section D
Review required of the suitability of the A120 to cope with the additional vehicle movements proposed given the state of the A120 with high levels of congestion and dangerous driving conditions.	See appraisal section D
Disruptive waste wagons running through village constantly.	See appraisal section D
Combined effect of proposal and ESS/24/15/BTE (gravel extraction) will result in overloading of the A120 and other roads in the area.	See appraisal section D
Galleys Corner roundabout will be permanently busy.	See appraisal section D

Queries how lorries will access the site when the A120 blocked due to accidents or roadwork.	
Waste transfer at Cordons Farm has resulted in a witnessed increase in HGVs that travel in and out of the village and at Galleys roundabout. Observed driving along the B1018, down Polecat Road and through Cressing village and the conservation area - particularly if the A120/Galleys roundabout is congested.	A routing agreement is in place through the legal agreement.
Concerned that even more HGVs will travel through the village to reach or leave the site, particularly when there is an accident on the A120, and use the same route through Cressing and Lanham Green Road to cut through to Bradwell.	See above
Lorries will use Woodhouse Lane	See appraisal section D
Roads are already busy due to the extra traffic from the nearby mineral extraction plant.	HGV movements are limited for both the quarry & the IWMF
The infrastructure needs to be in place for such a large scale development. Duelling of A120 required.	See appraisal section D
Local B roads are inadequate.	Access is only permitted via the access on the A120
One reason planning permission was refused by the Minister of State in 1995 for the Rivenhall site was the unsuitability of the A120 for the extra heavy traffic.	The Inspector did not raise significant highway concerns with respect to A120 in relation to this application at the Public Inquiry in 2009
Traffic lights required at the junction due to lorries pulling out.	The Highways England has raised no objection to the existing access arrangements.
Laybys required on A120 to allow lorries to pull off to allow emergency vehicles to pass.	The Highways England has raised no objection with respect to use of the A120
Queries contingencies when A120 is blocked.	No specific contingencies, Police would deal as appropriate
Transport studies need to be revisited.	Highways England has not required a reassessment
Requests condition re alternative fuels for partners.	Not something that can be controlled through planning conditions
Vehicles trying to access the Airfield will try to use quiet, bendy country lanes that are not suitable for long vehicles, increasing the risk of traffic incidents, noise and exhaust pollution for local residents.	Current IWMF permission is subject to routing agreement which if approved would be carried forward.
EMISSIONS & HEALTH IMPACTS	
Increase in lorry movements which will add further pollution.	No additional traffic movements are proposed as part of this variation application.
Proximity to residents.	See appraisal section C & J
A bigger throughput of waste to be burnt will mean increased pollution from the incinerator.	See appraisal section C
Submitted reports relate to previous matter and do not take into account increase in capacity and pollution.	See appraisal section C
Air pollution will rise in a rural area which is not acceptable for people who live and work locally.	See appraisal – section C
Objection on the grounds of social and historical impact. Sulphur dioxide (bad eggs) will be smell in the local communities and does not reflect the current understanding and awareness of environmental issues and concerns.	See appraisal section C
Air pollution will damage to homes and many	See appraisal section C

important buildings, due to acid rain. Much of Coggeshall is listed.	
Requests that conclusions arising from Environment Agency public consultation of December 2015 re Environmental Permit should be in considered in determination of planning application.	See appraisal section C
Objection on the grounds of planning detail. Detail provided not in accordance with RIBA design detail requirements. Therefore, high risk approach commercially, technically, environmentally and from a human health perspective – uncertainty re what you are getting, how it will work, to what standards and with what technology.	See appraisal section C
Continuous monitoring statistics required by EA before permit is issued. In this regard, regulatory departments/agencies and industry have been found lacking.	This is a matter for Environment Agency. See appraisal section C
Proposed that pollution plume will be “within legal limits”. However, it is an indisputable fact that pollution levels will rise in largely a rural area with currently with good air quality.	See appraisal section C
Filters will not stop all pollutants –including heavy metals, gases, particulates and chemicals such as dioxins.	See appraisal section C
Proposed 35m stack is likely to be much higher.	See appraisal section C
Notwithstanding wind direction, communities for 5-10+ miles in all directions are at risk of being affected.	See appraisal section C
Effects of long term exposure to incinerator emissions are controversial. Queries why a condition that pollution monitoring should be set up in nearby communities was turned down as it resulted in there being no regular “real world” monitoring in the wider area subject to the plume.	See appraisal section C
ECC must not allow commencement without appropriate input/licencing from EA – particularly re the height of the chimney.	The WPA does not have powers to prevent implementation prior to an Environmental Permit being in place
Concerns regarding pollutants – the accumulation in the environment and inhalation by humans. Increased amount and types of waste will increase pollutants.	See appraisal – section C
Queries whether pollutants should be monitored by a third party.	These are matters that would be controlled by the Environmental Permit administered
At the proposed 595,000 tonnes per annum, the Rivenhall Airfield incinerator would be one of the largest in England – queries re stack height. Proposed 35m high, yet a smaller capacity incinerator at Ipswich was required by the Environment Agency to have a 81.5m stack.	See appraisal section C
Increased infant mortality.	See appraisal section C
Significantly environmental impact due to increase in emissions and traffic.	See appraisal section C
Proposal will result in contamination of surrounding farmland.	See appraisal section C
Toxic and harmful gases released, potentially affecting Braintree and farmland.	See appraisal section C
Disappointed that it is still a consideration to burn potentially harmful substances and that the Environment Agency is not opposed to it.	See appraisal section C
ECC will be liable for medical problems as ECC is	See appraisal section C

wholly responsible for the health of this county.	
The risk of dangerous pollution resulting from the burner is serious unless the burner is working at full capacity 24 hours a day, year round.	Control of emissions would be through an Environmental Permit administered by the Environment Agency
Risk to local flora and fauna from pollution.	See above
Stack height still unknown.	See appraisal section C
Evidence that the proposal would cause illness.	See appraisal section C
Proposal would affect asthmatics, children, elderly and disabled.	See appraisal section C
Harmful gases of Butadiene, Benzene, Sulphur Dioxide and Cadmium will be emitted. These are especially harmful to the surrounding arable land.	See appraisal section C
Butadiene is a recognised as a carcinogen which can affect many organs in the human body.	See appraisal section C
Benzene is a carcinogen, especially in relation to anaemia and leukaemia.	See appraisal section C
Sulphur Dioxide causes breathing problems and acid rain which will affect historic buildings.	See appraisal section C
Cadmium contaminates crops and consumers.	See appraisal section C
No documented evidence of concentration and contamination levels at the edges of the research area.	See appraisal section C
Modelling shows dispersal towards Coggeshall. However, the equipment that detects and senses the output of gases are mainly not in the direction of the prevailing winds (towards Coggeshall) so a true reading of a populated area has not been gained.	See appraisal section C
Coggeshall is in a 'dip' so contamination will linger.	See appraisal section C
Contamination will impact on Coggeshall schools and surrounding households.	See appraisal section C
Any health risk is not acceptable especially where children are concerned.	See appraisal section C
The Emission Limit Value (ELV) levels are at the maximum – no leeway for human error.	See appraisal section C
Not enough evidence to prove that the surrounding area will be unaffected.	See appraisal section C
Essex County Council should be looking after the children of the future and their health.	See appraisal section C
Will affect Coggeshall and surrounding villages as the prevailing winds will drift over depositing dioxins and particulates.	See appraisal section C
Wind generally blows from the west – any gasses will blow over a densely populated residential area.	See appraisal section C
Effect of the gasses on the local farmland (mainly used for arable) and wildlife needs to be addressed.	See appraisal section C
Little information relating to environmental standards and best practices.	See appraisal section C
Inconsistencies in air quality documents and no supporting data re pollution levels key sites.	See appraisal section C
Applicant will manage compliance with permitted levels of pollution by trading its various allowances across other incinerators it owns – therefore no guarantee that air quality will be acceptable.	The is matter for Environment Agency
Massive increase in the size of the proposed incinerator, yet only a minimal increase in the emissions proposed.	See appraisal section C
Further investigation required.	See appraisal section C
Air pollution and gases that will affect surrounding area	See appraisal section C

Concerns regarding the effect of the proposal on the woodlands and wildlife.	See appraisal section C
Potential for human health risk from pollutants such as cadmium, benzene and nitrous oxide.	See appraisal section C
Application states that the design is at the RIBA detailed design stage, yet information submitted indicates that it is not the case. For example, no information relating to filtration or how the output emission requirements can be met.	See appraisal section C
Proposal is totally inappropriate in an area that is used for farming and the growing of food crops due to the health risks associated with pollutants.	See appraisal section C
Proposal will pollute the entire site for hundreds of years.	See appraisal section C
Pollution will cause acid rain.	See appraisal section C
Emissions of sulphurous compounds such as sulphur dioxide are noxious and, particularly in still weather conditions, cause respiratory distress.	See appraisal section C
Objection on the grounds of health risk. Significant Human health risk due to lack of detail, which results real in uncertainty surrounding the emissions from the plant. The human health risk assessment excludes a number of pathways and must consider the impact on the surrounding arable land – it is based on the original 2008/10 documentation. GF group ELV suggesting that trading of ELV values between Rivenhall and other better or less polluting plants/facilities will occur – further jeopardising the accuracy of the health risk assessment as the data is provided at 100% ELV with no headroom.	See appraisal section C
Objection on the grounds of air quality. Changes in air quality and gas dispersions a result of the proposal. Only modelled 5 of the emissions (gas dispersion) – a need for more extended determination of the air quality with respect to the chemical outputs especially with respect to Dioxins. No technical information or reference standards demonstrating how the applicant intends to achieve or exceed any of their air quality objectives.	See appraisal section C
Objection on the grounds of plant waste. Application does not contain any information or detail as to how the highly contaminated waste from the incinerator known as Incinerator Bottom Ash or Bottom fillings will be processed and disposed of.	This material would be exported from the site and disposed at a suitable licenced facility.
Vital that emissions from the stack are permanently within the approved range – this will not be achieved with a stack height of 35 metres.	See appraisal section C
Queries why a 35 metre stack at Rivenhall (largest in Europe) would be of sufficient height for the safe dispersal of emissions when other stacks are at least twice that height.	See appraisal section C
When, where and amount of fallout would depend on weather conditions on any given day.	See appraisal section C
Emissions should be constantly monitored and results freely available in real time on the internet.	See appraisal section C
Historic data or inspection is of no use if damage has already been done to local people, crops and the local environment.	See appraisal section C

The time lapse in shutting down the incinerator and the possibility of higher levels of toxins being emitted makes constant monitoring essential.	See appraisal section C
Queries provisions to alert the public to a disaster and commence evacuation.	See appraisal section C
Application materials relate to visible plume abatement and visible plume analysis. While preference would be no emissions from the plant – most important that there should be no significant output of pollutants or toxins. Visibility is of secondary importance.	The plume management is to minimise visual impact and a matter from the WPA. Emissions are a matter for the Environment Agency.
Uranium, explosives and ammunition have been recently discovered at a Hampshire County Council Waste Site. Rivenhall site will have no radioactivity detection equipment to detect raised levels of radiation – caused by genuine mistakes through to criminality to terrorism.	Matter for control through the Environmental Permit administered by the Environment Agency
Radioactivity is not significantly reduced by the incineration process – risking damage to the surrounding area for many years to come (eg Chernobyl contamination in Wales).	See above
Requests inclusion of radioactivity detection equipment through which each incoming truck would have to pass.	See above
No confidence that plant can prevent toxins, pollutants and dangerous materials from endangering the wellbeing of the public.	See appraisal section C
Damage to local ecological systems.	See appraisal section C
The fallout or plume from the chimney stack and its height have not been researched and proven to be safe.	See appraisal section C
There is a lack of Human Health Risk Assessments relating to the impact of the emissions throughout the food chain – essential as most of the emissions will be over arable land.	See appraisal section C
Human health impacts not independently tested.	See appraisal section C
No incinerator operator can 100% guarantee all of the waste types suit the set criteria and more importantly they cannot guarantee that the waste emissions will not be harmful – as shown by historical examples.	See appraisal section C
Emissions will result in strain on surgeries and hospitals in the local area.	See appraisal section C
Concerned re health risk from a site handling potentially toxic waste materials.	See appraisal section C
Pollution of farmland that could consign food products to be considered unfit for human consumption, resulting in damage claims.	See appraisal section C
Air pollution is likely to be greater due to the amount of unknown material being burnt.	See appraisal section C
Proposal retains the original 35m high stack, but now intends to burn a significantly larger amount of waste, including commercial and industrial waste	See appraisal section C
Asthma and breathing problems are linked to air pollution.	See appraisal section C
Increased levels of pollution affecting Witham residents	See appraisal section C
Radioactivity is not significantly reduced by the incineration process and a large proportion of it could be exhausted from the stack, risking damage to the	See appraisal section C

surrounding area potentially for many years.	
Concerns re submission to the EA re ultrafine particulates.	See appraisal section C
The nearest/fairly new GT Blakeney (Suffolk) site doesn't go into details re the particulates. Only the last 90 days on their website. This monitoring is not helpful.	See appraisal section C
Monitoring does make clear is that particulates measurements for both their "lines" are shown between 0 and 2 sometimes higher – the levels which are particularly dangerous as they have larger surface areas and "attract" more pollutants to attach to them.	See appraisal section C
Ultrafine particulates when combined in the stack with other pollutants need close attention. Applicant needs to comment on the real problem of ultrafine particulates – particularly re lungs, blood stream and other organs.	See appraisal section C
Examples of the effects of ultrafine particulates from other places around the world.	See appraisal section C
Concerns re effect of ultrafine particulates on health.	See appraisal section C
Requests that applicant pay for/monitor air and soil outside application area. Details to be made publically available.	See appraisal section C
Higher stack not wanted, but required for dispersal.	See appraisal section C
Backup systems required in case of failure.	See appraisal section C
Robust monitoring required.	See appraisal section C
Off-site monitoring required.	See appraisal section C
Queries whether applicant proposes real "state of the art" monitoring re ultrafine particles.	See appraisal section C
Stack emissions could drop on Tiptree ridge and the low hills of Wickham Bishops.	See appraisal section C
Heavy metals attach to ultrafine particulates.	See appraisal section C
Time lag in science re action/monitoring/abatement.	See appraisal section C
Public Health England is looking up to 15kms from incinerators re effects on health – 20kms required.	See appraisal section C
Accurate assessment of background levels required before development.	See appraisal section C
Queries proposal re Clean Air Zones and effects on the health of residents.	See appraisal section C
Top of stack monitoring required.	See appraisal section C
Tens of thousands of people live nearby.	See appraisal section C
Concerns re fire and explosions in dry conditions.	See appraisal section C
Concerns re bottom ash.	See appraisal section C
Concerns re hazardous nature of final waste products - fly ash and burnt metal attached to the ultrafine particulates.	See appraisal section C
Not clear how much pollution from the plume will blow towards Cressing or dispersion model does not reflect the actual landscape surrounding the site - there are tall trees, a quarry and farming land in the vicinity, plus roof shape of the proposed building.	See appraisal section C
Concerned that there are pollutants listed as moderate adverse. Should be treating all its pollution, not simply discharging them into the atmosphere.	See appraisal section C
OTHER ENVIRONMENTAL IMPACTS	
Destruction of woodland and other habitats of known protected and listed species	See appraisal section H
Applicant proposes to extract local water. Queries	See appraisal section F

how is ECC/Braintree DC with that element of the proposal.	
The developer has been given more than enough time.	See appraisal section M
Objection on the grounds of existing and proposed planning. Application has not been considered in conjunction with the intended gravel extraction and combined impact on the local transport infrastructure. Application has not been considered in connection with the requirements for new housing in the surrounding area and the wider impact of the emissions on these proposals.	The EIA has considered cumulative impacts, see appraisal section K
Another amendment to the permission that went to a Public Enquiry. Queries whether the Public Enquiry findings, restrictions etc. are still being adhered to and whether Public Enquiry findings can be ignored by way of subsequent planning applications.	See appraisal
Concerned at the proposal to both extract water from the river Blackwater and discharge effluent into it - not something that can be decided as a section73 application.	Discharge into the river does not form part of the proposals.
The Inspector to the 2009 Inquiry, whose report informed the Secretary of State decision in March 2010 to grant planning permission clearly stated that use of water from outside the plant would be "minimal" as water would be derived largely from internal recycling and rainwater. Now not the case - no way of knowing whether that original planning permission would have been granted had all the current facts been before the Secretary of State. Blatant conflict with the Environmental Permit application now before the Agency – which specifically ruled out discharge to the River Blackwater.	See appraisal section F
GENERAL	
Development will depreciate property and suppress the area.	Property values are no a planning matter
Amendment/removal of stack height condition will remove any protection for the local community. With the limited information contained within the submission, there is no possibility of the stack being designed at this stage and therefore no means of verifying any information as to sight lines etc.	The height restriction on the stack is not to be removed
Money is primate consideration. Big companies who have no consideration for community.	Consideration of profits is not a planning matter.
Queries whether permission can be granted without being able to approve the design of the stack and sight lines.	The stack height is known and details submitted with respect to its visual appearance.
Concerns regarding the security of the plant and its potential vulnerability to hostile acts (terrorism, dumping etc.)	The site is to be fenced and the operator would be responsible for on site security
Intake material will be checked intermittently to ensure that it only consists of approved materials, but no mention of any radioactivity detection equipment (eg. Geiger counter) to detect levels of radiation.	Control of waste types is a matter controlled through the Environmental Permit
Concerns re 24/7 operation of the plant when built.	The noise and light impacts of the proposal have been considered and hours of operation for arrival of

	vehicles are subject to control by condition
Council should consider the wishes and health of the community they have been elected to serve, not corporate giants with no regard for the people of the area or the environment.	Each application is considered on its individual planning merits
If the plant became unused, the result would be mountains of waste, for which no one has responsibility, resulting in fire, pollution and health hazard.	The site would be subject to an Environmental Permit & monitoring by the EA
Queries how facility will be monitored and controlled re pollution.	See above
Once in place, there will be inevitable scaling-up of the site operation.	Any increase in HGV movements or total annual inputs would need to be subject of a further planning application.
Queries the applicant's business capabilities.	This is not a planning matter
Queries commercial arrangements with the ECC and whether proposal has already cost the public money.	The WPA has no involvement in the procurement of waste contracts.
Queries ECC stake in the proposal.	See above
Queries planned decommissioning arrangements.	These would be addressed through the Permit and future planning applications
Energy From Waste not going into national grid and who will be using & benefiting from it.	Electricity would be exported to the National Grid and some energy used on site.
Queries company structure.	Not a land use planning matter
Proposal will impact on quality of life.	See appraisal
The original proposal was that the use of water from outside of the site would be minimal, as it would come from internal recycling and rainwater. This fundamental change will require a new permit from the Environment Agency and assuming it is agreed, will set the project back at least 7 months.	See appraisal section F
LANDSCAPE & AMENITY	
Farmland already in decline due to residential property construction.	The impact of loss of farmland was assessed as part of the EIA of the original application and found not to be significant
Imperative to protect open countryside and prime farm land.	See above and see appraisal section G
Destruction of farmland.	See above
Size of the stack is still unknown and will be an eyesore on the countryside.	See appraisal section C
Area is popular for cycling due to unspoilt countryside.	See appraisal section G
Proposal should not be near residential areas.	See appraisal section B
Area is very popular with the residents of the local area for recreation (walking, cycling, running, horse riding etc.), but the fear of pollution would stop many people from enjoying their leisure pursuits	See appraisal section C
Beautiful rural area should be preserved for present and future residents.	See appraisal section G
Habitats of protected species in the woodlands will be destroyed.	See appraisal section H
Proposal will turn a rural environment into a heavy industrial area.	See appraisal section G
Incinerator will be visible from a distance.	See appraisal section G
Eyesore into the local landscape	See appraisal section G

Objects to increased noise.	See appraisal section J
Objects to increased diesel fumes.	See appraisal section C
Concerns regarding the effect of the proposal on the landscape.	See appraisal section G
Proposal will create both noise and light pollution.	See appraisal section J
Large chimneys not in keeping with the countryside surroundings.	See appraisal section G
Concerns regarding the threat to the rural location and tranquillity.	See appraisal section G
Will effect enjoyment of footpaths.	See appraisal section G and E
The stack, and its associated plume, will be unacceptably high, very visible and obtrusive.	See appraisal section G
Objection on the grounds of plume visibility. Condition that no plume should be visible - documentation states that the plume will be visible for a given number of days per year.	See appraisal section G
Reserves of waste on site would be detrimental to a healthy standard of living for locals - odours, flies, seagulls, germs and vermin would prevail.	Site would be subject to an Environmental permit
The development is in the countryside, not a 'brownfield site' as claimed	See appraisal sections A and G
Significant light and noise pollution in a very quiet and naturally dark part of the countryside.	See appraisal sections J and H
The local area is already subject to many planning consents, which will result in more Greenland being lost to housing. The population of Essex is due to grow even further over the coming years so for Essex County Council to consider this planning application is a dereliction of responsibilities to the residents of North Essex.	See appraisal
Council are intent on further destroying the countryside with no consideration of the beauty, historical interest, value of the area, residents.	See sections G I and J
Ecological and environment reasons for positioning such a facility in the middle of the countryside have not been considered	See sections A, H and G
Industrial unit would be completely out of proportion to any other in the rural area.	See appraisal section G
Impact on footpaths, building damage and an unsightly 35 metre tall chimney will effect tourism thereby reducing the income to many local businesses.	See appraisal section G
Blighting of a hilltop location that will be visible for many miles around.	See appraisal section G
Chimney stack will totally destroy the overall architectural beauty of the area.	See appraisal section G
Proposal is not in the best interests of the residents of the area and will have a detrimental effect on the Essex Countryside.	See appraisal section G
HISTORIC	
Adjacent to Conservation Area	The Inspector in 2009 didn't consider there was adverse impact on the CA
Proposal would make the conservation area pointless.	See above
Acid rain will be particularly damaging to the timber framed heritage houses in Coggeshall and other villages.	Emissions would controlled by the EA
Listed buildings at Woodhouse Farm and in other local area will be at a high risk of damage from acid	See above

rain	
Proposal will adversely affect the environment and the heritage of Coggeshall.	See above
Prepared to sacrifice the heritage of villages and small towns, like Coggeshall, without any thought for the future or residents.	See appraisal
Concerned re effects on the heritage and environment of the local area.	See appraisal sections G and I
Coggeshall is a historic village dependent on tourism, which will be adversely affected by the proposal.	See appraisal
Visible stacks blighting an historic Essex town.	See appraisal section G
CUMULATIVE IMPACT	
Amendment is not being considered in conjunction with the nearby gravel extraction.	See appraisal section K
No allowance made in air quality/gas dispersal models for vehicle movements associated with this proposed amendment and gravel extraction.	No increase in vehicle numbers are proposed above those already permitted.
Pollution and particulate output from both sets of vehicle movements needs to be considered in the models	See above
Obvious flaws in the models submitted with the application. For example, vehicle movements and those not associated with the local gravel extraction are not considered in the air quality models.	See above

Heads of terms for legal obligations as set out in April 2009 Committee Report

- a. Ensuring that no excavation works take place on the site under this permission until the applicant has provided evidence to demonstrate their intention to substantially commence the construction of the waste management facility.
- b. Ensuring the market de-ink paper plant shall only be operated as an ancillary facility to the waste management facility.
- c. Setting up of an index linked fund of £(to be confirmed) to provide for the implementation of traffic management measures for the existing A 120 when no longer a Trunk Road.
- d. Provision and implementation of:
 - improvements to crossover points with Church Road and Ash Lane as indicated within the application;
 - a traffic routeing management system should HGV drivers be found to be using non County/Urban distributor roads between the A12 and A120 Trunk Roads;
 - funding for the installation of permanent information signs to direct HGV drivers to suitable County/Urban distributor roads to access the waste management facility via the A 120.
 - monitoring and mitigation programme at 1 and 5 years from first beneficial occupation of the waste management facility, traffic capacity of the Church Road-Ash lane access road link to determine whether there is evidence of conflict with vehicles using the public highway at the crossover points and if found then install additional passing places or widen the access road to facilitate two way traffic and/or improved traffic management at the crossing.
- e. No development until submission of ground water monitoring scheme for outside the boundaries of the site.
- f. Setting up and meeting the reasonable expenses and administration of a Liaison Group to hold regular meetings.
- g. Funding a level 3 survey in accordance with RCHME standards of all airfield buildings and structure prior to commencement of the development and fully funded presentation of the findings within the Heritage/Visitor Centre

- h. Reinstatement and refurbishment of the Woodhouse Farm complex a funded and managed heritage facility.
- i. Educational areas of the Woodhouse Farm complex being available outside of normal working hours to local parish councils or other identified local community groups to be agreed with the Liaison Group.
- j. To submit details of the proposed planting and bunding and maintenance of such and to implement the approved details in the first available planting season following issuing the planning permission. These planting and bunding works not to constitute the commencement of development.
- k. Provision of fully funded management plan to secure the regular maintenance/replacement as required of all existing and proposed planting and ecological management plan for habitats for the site from commencement until 20 years after the first beneficial occupation of the waste management facility.

APPRAISAL OF ENVIRONMENTAL STATEMENT

Planning Application ESS/34/15/BTE:

Environmental Impact Assessment (EIA)

An Environmental Statement (ES) was been submitted with the original application (ESS/37/08/BTE) in 2008. This ES was updated by additional Information required by the WPA under Regulation 19 of then EIA Regulations.

The matters addressed by the original ES are set out below:

- Land use and Contaminated Land
- Water Resources
- Ecological risk assessment
- Landscape and Visual Impact
- Cultural Heritage
- Travel and Transport
- Air Quality
- Noise and Vibration
- Social and Community Issues
- Nuisances
- Human Health Risk Assessment

An appraisal of the ES supported the April 2009 Development & Regulation Committee Report upon which a resolution was made by the Committee, but the matter was Called In for determination by the Secretary of State.

An Addendum ES was submitted prior to the Public Inquiry and additional information submitted during the Public Inquiry to support the ES. All the ES documents were taken into consideration by the Inspector when considering the original application at the Public Inquiry in 2009.

An update to this original set of ES documents was provided with planning applications ESS/44/14/BTE and ESS/55/14/BTE. The matters covered by the update included consideration of the following:

Land use and contaminated land
Ecology
Ground and surface water
Landscape & Visual Amenity
Archaeology & Cultural Heritage
Air quality
Noise
Cumulative impacts

The current application (ESS/34/15/BTE) has been supported by all of the previous EIA information, and is also supported by a review of all the matters previously

considered to assess whether as a result of the proposed amendments further reassessment of the impacts were required.

The Planning Inspectorate in considering the appeal against the decision of the WPA to grant planning permission for a two year rather than one year extension, requested further EIA information to support the appeal during the course of the determination of the current application.

The Planning Inspectorate requested the further information to address the following matters:

- An updated and comprehensive assessment of the environmental baseline applicable to the entirety of the proposed development.
- A cumulative Impact Assessment taking account of all reasonable foreseeable developments, including the adjacent mineral workings and the potential connection to the National Grid

As this information requested by the Planning Inspectorate is also relevant to the current application, the further EIA information was also required by the WPA to be submitted to support the current planning application.

The assessment of the ES below is based on the update of the ES provided with the current application and the further information submitted to the Planning Inspectorate and considers the following subject matters:

- Land use and Contaminated Land
- Water Resources
- Ecological risk assessment
- Landscape and Visual Impact
- Cultural Heritage
- Travel and Transport
- Air Quality
- Noise
- Social and Community Issues
- Nuisances
- Human Health Risk Assessment
- Cumulative Impacts

The EIA process looks at each of the impacts in turn to assess the potential impact on the natural and built environment and considers, where necessary, the mitigation measures needed to reduce and minimise the potential impact of the proposed amendments.

EIA SUMMARY AND RECOMMENDATIONS

The following provides a summary of the significant effects that could potentially arise as a result of the proposed amendments to the integrated waste management facility

Land Use and Contaminated Land

The planning area remains unchanged, such that no new land is affected by the proposals i.e. no additional agricultural land would be lost than that required under the original scheme and assessed not to result in adverse impact. The majority of the IWMF site has now been worked for mineral such that the ground levels have now changed.

In working the area no areas of contamination have been found. Existing planning condition 25 requires details with respect to dealing with contamination and would be re-imposed if planning permission were granted.

Condition 24 ensures soils are handled and stored appropriately and put to a sustainable use.

Comment

There would appear to be no additional issues that require mitigation arising from the amendments and protection from contamination and protection of soil resources is addressed through existing conditions.

Water Resources

The general hydrological setting surrounding the site remains unchanged. The chalk aquifer is confined below the London Clay. The sand and gravels within the site and surrounding the site contain some ground water.

The extraction of sand and gravels within the site and in front of the site means there is a modification of ground conditions at the front of site such that ground levels are on London clay as opposed to unexcavated and permeable layer of sand and gravel.

The replacement of retaining walls with excavated slopes and soil nail walls would have a positive effect on earth and water retention next to existing trees.

Surface water & flood risk assessment – The flood risk as part of the original proposal was considered “low”, the minor modifications to layout of the site and review of flood mapping would indicate the risk remains “low”.

The area of buildings and hardsurfacing is slightly less than the original proposals and the elevation of the access road has changed slightly. It was concluded these would have an insignificant effect on the surface water drainage. As the facility is below ground it is necessary that adequate storm drain capacity is included in the development and the assessment concluded the proposed arrangements would be adequate, including the amended lagoons. The detail of surface water management have been submitted under condition 23 and have been subject of consultation with the Lead Local Flood Authority who have raised no objection.

Groundwater – the volume of ground water to be encountered within the site was considered small in comparison with surface water and could be accommodated within the existing surface water management system.

Comment: The assessment indicated there would be no new issues and that the existing conditions would ensure the required mitigation was delivered.

Ecology

The ecological impacts have been reassessed utilising information submitted with respect to subsequent applications for quarry sites A2 and A3 and A4 and information submitted previously to discharge ecological conditions (53 – ecological survey update) and 54 (Habitat Management Plan). The re-assessment considered the impacts of the reduced building footprint and the change to excavated slopes and soil nail walls. It was concluded there would be overall positive benefit. A 5m strip of the existing TPO woodland would be retained and the slope walls would provide areas for additional planting, biodiverse concrete slopes (rather than being placed on the roof of the building) and reducing impacts of dewatering of existing trees.

Comment: The information is contained within many different documents, but together provides an adequate assessment of the ecological impacts, and shows an overall positive impact arising from the proposed amendments. Ecological mitigation would be secured through the existing conditions and obligations.

Landscape & Visual Impact

The landscape and visual impact assessment has taken account of the reduced building footprint, the switch from vertical and soil nail walls and the minor relocation of the CHP Stack.

The landscape assessment acknowledges that since the original application Hangar No. 2 has been removed, along with other ancillary airfield buildings and woody vegetation, arable land and hard surfaces of the former airfield. Also that area A2 has been worked for mineral and currently under restoration and sites A3 and A4 are now being extracted for mineral. The restoration scheme for the quarry workings has been designed to be in sympathy with the landscape mitigation required for the IWMMF.

The landscape character of the area was assessed as Good to Ordinary under the 2008 Landscape and Visual Impact Assessment and although the assessment has not changed upon completion of restoration of the mineral workings with associated planting it is anticipated this would improve in the long-term.

Visual receptors, the visual receptors are considered not to have changed except intervening quarry works in site A3 and A4 are now taking place between some of the receptors and the application site.

Landscape impact was considered in the context of the historical landscape and the current disturbed landscape. The airfield past use was assessed as having an industrial influence on the landscape character and is able to accept a large degree of change and it was assessed the amended IWMMF would be the next progression in this change.

The amendment to the IWMMF allows retention of some existing woodland, enabling a 30m belt rather than 25m to be remain including a 5m strip of the TPO woodland to

the south. The excavated walls and soil nail walls would provide a greater offset to existing woodland.

It was assessed that the original view that the short-term impact on landscape would be minor adverse and while the changes would provide some improvement the assessment is not changed. Similarly the long-term impacts are still assessed as negligible.

Visual Impact – The proposed changes were considered to have any no marked change on the visual impacts. The change in location of the CHP stack it was considered would be barely perceptible.

The objectives and location of mitigation are not required to change as a result of the amendments to the IWMF. The area of woodland scrub has increased from 2.2 ha to 3ha with a further 1.3ha south of the site. Hedgerow linear metres have been increased from 350m to 530 including those proposed around the Education/Visitor car park.

The design of the building remains largely the same, the colours of cladding have been slightly amended, but would be predominantly dark and colours graded up its elevation to reduce the overall impression.

The proposed green roof sedum blanket rather than the part crushed concrete substrate covering was considered would improve mitigation in the wider landscape.

Comments: The assessment has taken into consideration the changes in landscape since the initial assessment and the proposed amendments and assessed the overall impact would not be dissimilar to those previously assessed. The details of landscaping (planting & protection condition 57 & 59), stack details & materials (condition 14) and details of the green roof (condition 18) are all required to be submitted by condition.

Cultural Heritage

With respect to archaeology the majority of the site has already been subject of archaeological investigation as part of mineral extraction and a programme of investigation is required for the remaining areas (condition 10). These would be unaffected by the proposed amendments. The airfield buildings removed prior to extraction were also subject of historical survey prior to demolition.

Woodhouse Farm and complex are as part of the proposals to be refurbished and this would be unchanged by the proposed amendments. Historical recording is required prior to any works to the listed buildings (condition 64). Condition 13 required details of lighting, signing and telecommunications to be submitted for Woodhouse Farm.

The slight reposition of the CHP stack has been assessed as having no greater impact than that considered previously and is mitigated by the proposed mirror finish reflecting the surrounding environment.

Comment: No specialist advice has been sought with respect to the historic environment. However, the proposed amendments are minimal with respect to their impacts on the historic environment and existing conditions and obligations would provide adequate mitigation.

Travel & Transport

The changes in the capacities of the different elements of the IWMMF and the likely exports arising from the amendment proposals have been assessed to demonstrate that the existing HGV limits would not be exceeded.

It has been assessed that even with the decrease in bio-waste, paper waste and LACW/C&I and increase in RDF and export of paper sludges and additional ashes the predicted vehicle movements would be within the permitted maximum vehicle movements.

It was noted that the total staff numbers are likely to increase, but that the number on site at any one time would not increase due to split shifts. Reassessment of staff vehicles was not considered necessary due to change over times not coinciding with peak flows.

Comment: As HGV movements have been demonstrated to be within existing limits there are no additional impacts, and no additional mitigation is necessary over and above that provided by the existing conditions and legal obligations.

Air Quality

An updated assessment of air quality effects and dispersion modelling assessment has been undertaken taking account the proposed changes.

The assessment shows that the concentrations arising from the process contribution for the amended IWMMF would not cause an exceedance of the AQAL for any pollutant. AQAL is a comparison with Air Quality Objectives and Environmental Assessment levels. The only exceedance is for PAH (Polycyclic aromatic hydrocarbon) and this is due to existing base levels. The dispersion modelling indicates that the proposed amended facility would not have a significant impact on local air quality, the general population or the local community.

Comment: The assessment would indicate that there are no major concerns with respect to air quality that would give cause for concern at the planning stage. However, the assessment and control of emissions is a matter for consideration and control through the Environmental Permit administered by the Environment Agency.

Noise

The noise levels arising from the proposed IWMMF have been re-assessed taking account of the proposed amendments. It was concluded that the amended IWMMF would be operated within the existing permitted maximum daytime and night-time limits.

Comment: As plant within the IWMMF is to be approved at a later stage further reassessment would be required and should also take into account the change in the slopes surrounding the facility.

Social and Community Issues

No positive or negative social or community issues were identified as arising from the amendments to the IWMF. It is noted that the operators have offered that the role of education/waste minimisation officer would be provided at the facility.

Nuisances

No additional nuisance impacts were identified arising from the IWMF proposed amendments. A summary was provided of the proposed operational practices with respect to dust, bio-aerosols, litter, insects, vermin and litter, light pollution,

Comment: No additional mitigation over and above existing conditions is considered necessary.

Human Health Risk Assessment

The updated assessment considers the amendments to the IWMF including the increase capacity of the CHP facility.

The health risk assessment considered the various pathways through which an impact could arise, including through inhalation, ingestion of soil, water, home grown vegetables, animals and milk and breast milk. The most likely pathway was considered to be direct inhalation.

For all pollutants the TDI (Tolerable Daily Intake) and MDI (maximum daily intake) were not exceeded except for cadmium and chromium ingested by children. With respect to cadmium level this was 139.51% of the maximum input, but the IWMF only contributed 0.62% to this level. Similarly the contribution to chromium by the IWMF was only 1.1%. It was not considered these contributions would increase health risks from these pollutants. Overall it was concluded these would not result in appreciable health risks resulting from operation of the amended IWMF.

Comment: The assessment does not raise significant concerns at the planning application stage. These matters would be considered in more detail as part of the consideration of the Environmental Permit by the Environment Agency.

Cumulative Impacts

Consideration has been given to the cumulative impacts of other development namely adjacent mineral extraction and development associated with the IWMF such as the electric cable that would be required to link the facility to the National Grid and the water pipework required to link the site to the water abstraction point on the River Blackwater and if progressed the alternative water abstraction and discharge arrangements. In addition the intention to retain overburden from within the IWMF in temporary storage prior to use in restoration of the adjacent mineral working. This would also require a temporary lagoon to store water during the works.

With respect to these other developments, the following additional impacts have been noted

Heritage – no direct on heritage assets, but temporary impacts on setting during the installation phase of the cable. The electricity cable would also follow the route of a Protected Lane, but working practices could be adopted to minimise the impact.

Landscape – Potential loss of small sections of hedgerow amounting to 50m of hedgerow and short-term visual impacts from installation of the electric cable and pipework. Mitigation through replacement of the hedgerow could be provided.

Transport – short-term impacts on highways and PRow during the installations works.

Ecology – At the point of connection of the electricity cable with the sub-station near Galley's Corner GCN have been recorded in the past. As a protected species the statutory undertaker would need to take appropriate protection measures. Also the location of the water abstraction point on the River Blackwater lies just within Blackwater Plantation Local Wildlife site. To minimise the impact the area and duration of disturbance would need to be limited as much as possible.

Noise – the storage of overburden from the IWMF and required rephrasing has been assessed and could be undertaken within the existing noise limits

Comment: No significant issues were raised that could not be addressed through appropriate mitigation.



Report to the Secretary of State for Communities and Local Government

by M P Hill BSc MSc CEng MICE FGS

an Inspector appointed by the Secretary of State
for Communities and Local Government

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Date: 22 December 2009

TOWN AND COUNTRY PLANNING ACT 1990

ESSEX COUNTY COUNCIL

APPLICATION

By

GENT FAIRHEAD & CO. LIMITED

Inquiry held on 29 September 2009

Rivenhall Airfield, Essex C5 9DF.

File Ref(s): APP/Z1585/V/09/2104804

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ACRONYMS AND ABBREVIATIONS USED IN THE TEXT

AD	Anaerobic Digestion
BAT	Best Available Technique
BDC	Braintree District Council
BDLPR	Braintree District Local Plan Review
BPEO	Best Practical Environmental Option
CABE	The Commission on Architecture and the Built Environment
CD	Inquiry Core Documents
CG	Community Group
CHP	Combined Heat and Power
C&I	Commercial and Industrial
CNEEFOE	Colchester and North East Essex Friends of the Earth
CPRE	Campaign to Protect Rural Council
Defra	Department of Environment, Food and Rural Affairs.
DMRB	Dept. of Transport's Design Manual for Roads and Bridges
DP	Development Plan
EA	Environment Agency
EAL	Environmental Assessment Level
ECC	Essex County Council
EEP	East of England Plan (2008) - the Regional Spatial Strategy
EERA	East of England Regional Assembly
EfW	Energy from Waste
EP	Environmental Permit
eRCF	The evolution of the Recycling and Composting Facility – the proposal which is the subject of the present application
ESRSP	Essex & Southend-on-sea Replacement Structure Plan
ES	Environmental Statement
FOE	Friends of the Earth
IPPC	Integrated Pollution Prevention and Control
IWMF	Integrated waste management facility
JMWMS	Joint Municipal Waste Management Strategy
LBCA	Planning (Listed Buildings and Conservation Areas) Act 1990
LCG	Local Councils Group
LVIA	Landscape and Visual Impact Assessment
MBT	Mechanical Biological Treatment
MDIP	Market de-inked paper pulp
MDR	Mixed Dry Recyclables
MOW	Mixed Organic Waste
MRF	Materials Recycling Facility
MSW	Municipal Solid Waste
mtpa	million tonnes per annum
NE	Natural England
OBC	Essex County Council Outline Business Case
P&W	Printing and Writing Paper
PASS	Planning Application Supporting Statement
PPG	Planning Policy Guidance
PPS	Planning Policy Statement
RCF	The Recycling and Composting Facility for which planning permission has been granted.
RSS	Regional Spatial Strategy
SoS	Secretary of State for Communities and Local Government
SOCG	Statement of Common Ground

SLA	Special Landscape Area
SPG	Supplementary Planning Guidance
SRF	Solid recovered fuel
SWFOE	Saffron Walden Friends of the Earth
TCPA	Town and Country Planning Act 1990
tpa	Tonnes per annum
WDA	Waste Disposal Authority
WFD	Waste Framework Directive
WID	Waste Incineration Directive
WLP	Essex & Southend-on-sea Waste Local Plan (2001)
WPA	Waste Planning Authority
WRAP	Waste and Resources Action Programme
WSE	Waste Strategy for England
WTS	Waste Transfer Station

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Rivenhall Airfield, Essex CO5 9DF.

- The application was called in for decision by the Secretary of State for Communities and Local Government by a direction, made under section 77 of the Town and Country Planning Act 1990, on 12 May 2009.
- The application was made by Gent Fairhead & Co. Limited to Essex County Council.
- The application Ref: ESS/37/08/BTE is dated 26 August 2008.
- The development proposed is an Integrated Waste Management Facility comprising: Anaerobic digestion plant treating mixed organic waste, producing biogas converted to electricity through biogas generators; Materials Recovery Facility for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals; Mechanical Biological Treatment facility for the treatment of residual municipal and residual commercial and industrial wastes to produce a solid recovered fuel; De-inking and pulping paper recycling facility to reclaim paper; Combined Heat and Power Plant utilising solid recovered fuel to produce electricity, heat and steam; Extraction of minerals to enable buildings to be partially sunken below ground level within the resulting void; Visitor / Education Centre; Extension to existing access road; Provision of offices and vehicle parking; and associated engineering works and storage tanks.
- The reason given for making the direction was that the proposal may conflict with national policies on important matters.
- On the information available at the time of making the direction, the following were the matters on which the Secretary of State particularly wished to be informed for the purpose of his consideration of the application:
 - (i) The extent to which the proposed development is in accordance with the development plan for the area, having particular regard to the policies of the Essex & Southend Waste Local Plan 2001, the Braintree District Local Plan Review 2005 and the East of England Plan 2008.
 - (ii) The extent to which the proposal would secure a high quality of design, and its effect on the character of the area, having regard to the advice in paragraphs 33 to 39 of Planning Policy Statement 1: Delivering Sustainable Development.
 - (iii) The extent to which the proposal is consistent with advice in Planning Policy Statement 7: Sustainable Development in Rural Areas which seeks to ensure that the quality and character of the countryside is protected and, where possible, enhanced and to ensure that development proposals are in line with sustainable development principles and, consistent with these principles and taking account of the nature and scale of the development, that development is located in sustainable (accessible) locations.
 - (iv) The extent to which the proposal is consistent with advice in Planning Policy Statement 10: Waste, to provide adequate waste management facilities for the re-use, recovery and disposal of waste and to ensure that decisions take account of the waste hierarchy, the proximity principle and regional self-sufficiency.
 - (v) Whether any planning permission granted for the proposed development should be subject to any conditions and, if so, the form these should take, having regard to the advice in DOE Circular 11/95, and in particular the tests in paragraph 14 of the Annex;
 - (vi) Whether any planning permission granted should be accompanied by any planning obligations under section 106 of the 1990 Act and, if so, whether the proposed terms of such obligations are acceptable;
 - (vii) Any other matters that the Inspector considers relevant.

Summary of Recommendation: Planning permission should be granted subject to conditions.

SECTION 1 - INTRODUCTION AND PREAMBLE

1.1 The application, supported by an Environmental Statement (ES) (Documents CD/2/4 to 2/8), was submitted to Essex County Council (ECC) on 26 August 2008.

ECC confirms that the application was advertised and subject to consultation in accordance with statutory procedures and the Essex Statement of Community Involvement. In response to a request for further information made under regulation 19 of the Environmental Impact Assessment Regulations 1999, the applicants submitted additional information in December 2008 (Document CD/2/10). This information was also advertised and subject to consultation. The application was reported to ECC's Development and Regulation Committee on 24 April 2009, at which it was resolved to grant planning permission, subject to conditions and a legal agreement, and subject to the Secretary of State (SoS) not calling in the application for her own determination. The committee report and subsequent minutes can be found at Documents CD 2/12a, 2/12B and 2/13.

1.2 The application was subsequently called in for determination by the SoS in a letter dated 12 May 2009. The reason given for the direction is that the application may conflict with national policies on important matters.

1.3 No pre-inquiry meeting was held. However, on 19 August 2009, my colleague Andrew Freeman issued a pre-inquiry note to provide guidance on the procedures to be adopted in relation to the inquiry.

1.4 In September 2009 the applicants submitted an Addendum Environmental Statement (Addendum ES) which was intended to provide additional information at the inquiry. The Addendum ES (Document GF/12) provides additional information and amendments on air quality, human health risk assessment, carbon balance and ecology. It includes an air quality impact assessment based on a redesign of the scheme whereby the proposed gas engine stack would be deleted and all emissions re-routed through the CHP stack. The Addendum ES is accompanied by a Revised Non Technical Summary (Document GF/11). These documents were also advertised and subject to consultation, with a requirement that responses be submitted by 14 October 2009.

1.5 At the inquiry, the applicants confirmed that they wished the proposal to be considered on the revised design whereby all emissions would be routed through a single combined heat and power facility (CHP) stack. The revised scheme is set out in the revised set of application drawings at Document GF/13-R1. Bearing in mind the publicity given to this amendment and the opportunity for all parties and individuals to take part in the inquiry, I was satisfied that no-one would be unreasonably disadvantaged or prevented from presenting their views to the inquiry. I therefore accepted that it would be reasonable to consider the proposal on the basis of the revised design, namely with a single chimney stack.

1.6 The applicants submit that the Environmental Information for the proposal comprises the ES dated August 2008, the subsequent Regulation 19 submissions, the Addendum ES and the revised Non Technical Summary dated September 2009. These have been produced in accordance with the Town and Country Planning (Environmental Impact Assessment) (England and Wales) Regulations 1999. I have taken account of the documents comprising the Environmental Information, together with the consultation responses and representations duly made within the advertised timescales in arriving at my recommendation. All other environmental information submitted in connection with the application, including that arising from questioning at the inquiry has also been taken into account.

1.7 The inquiry sat for 10 days between 29 September 2009 and 14 October 2009. I undertook accompanied visits to the appeal site and its surroundings, to local

villages and the local road network on 29 September and 15 October 2009. A number of unaccompanied visits to the area, including the walking of footpaths and inspections of the local road network were made before, during and after the inquiry. On 16 October 2009, I made an accompanied visit to the Frog Island Waste Management Facility operated by Shanks at Rainham in Essex. This facility includes a materials recovery facility (MRF) and a three line mechanical biological treatment (MBT) plant dealing with approximately 200,000 tonnes of waste annually. In order to minimise the impact of odour, the MBT operates under a negative air pressure and utilises bio-filters sited on its roof. The visit was arranged primarily to inspect the operation of the air treatment arrangements. A note on the facility is included at Appendix A of this report.

1.8 A Statement of Common Ground (SOCG) has been prepared between the applicants and ECC. The final version of this SOCG can be found at Document CD/13/4. The document includes draft comments from the Local Councils Group (LCG).

1.9 At the opening of the inquiry, the applicants were advised that any planning obligations under S106 of the Town and Country Planning Act 1990 should be submitted in their final form before the inquiry closed. An unsigned copy of an agreement between the applicants and ECC was submitted in its final form on 14 October 2009. The applicants indicated that a signed executed copy of the agreement would be submitted before the end of October 2009. This was received by the Planning Inspectorate within the timescale and conformed and certified copies of the completed S106 agreement can be found at Document CD/14/5.

1.10 On the final day of the inquiry proceedings (14 October 2009), a submission was received from the Environment Agency (EA) in response to the consultation exercise on the Addendum ES. The main parties and the Rule 6 parties asked for time to consider the contents of this document. Moreover, as the final date for responses to the Addendum ES was 14 October, there was a possibility that further representations could be received later that day. It was therefore agreed that any comments on the EA response and on any other representations on the Addendum ES received by 14 October, should be submitted to the Planning Inspectorate by 1600 hours on 22 October 2009. These responses can be found at Document CD/16. Moreover, any response to such comments was to be submitted within a further 7 days, namely by 1600 hours on 29 October 2009. Those responses can be found at Document CD/17. I indicated that no other representations outside these limits would be considered in my report and that the inquiry would be formally closed in writing on the first working day in November. A letter closing the inquiry was sent to the parties on 2 November 2009.

1.11 In addition to the matters on which the SoS particularly wished to be informed (set out in the summary box above), I indicated at the opening of the inquiry that I considered that the following issues should also be addressed:

- i. the need for a facility of the proposed size;
- ii. the viability of the proposed scheme including the de-inking and paper pulping facility;
- iii. the weight to be given to the fall back position of the Recycling and Composting Facility (RCF) for which planning permission was granted in 2007;

- iv. whether there is a need for the scheme to provide flexibility to accommodate future changes in waste arisings; changes in the way waste is dealt with; and changes that may occur in the pulp paper industry. If so, whether the scheme takes account of such need;
- v. the effect of the scheme on the living conditions of local residents with particular regard to noise and disturbance, air quality, odour, dust, litter, and light pollution;
- vi. the extent of any risk to human health;
- vii. the effect on highway safety and the free flow of traffic on the highway network;
- viii. the impact on the local right of way network;
- ix. the impact on ground and surface waters;
- x. the implications of the associated loss of Grade 3a agricultural land;
- xi. the effect of the proposal on habitats, wildlife and protected species;
- xii. the impact on the setting and features of special architectural or historic interest of listed buildings in the locality; and,
- xiii. the effect on the historic value of the airfield.

1.12 This report includes a brief description of the appeal site and its surroundings and contains the gist of the representations made at the inquiry, my conclusions and recommendation. Lists of appearances and documents are attached.

1.13 A number of terms have been used to describe the development. Throughout the report, I shall refer to the overall development proposal as the evolution of the recycling and composting facility (eRCF), and the proposed buildings, structures and equipment forming the facility as the proposed integrated waste management facility (IWMF)

SECTION 2 - DESCRIPTION OF THE SITE AND ITS SURROUNDINGS

2.1 The appeal site and its surroundings are described in various documents, including the statement of common ground (SOCG)(Doc. CD/13/4), the ECC Committee Report (Doc. CD/2/12A), and the proofs of evidence of various witnesses. The site is situated in an area of primarily open and generally flat countryside. Beyond the area surrounding the site the landscape is gently undulating countryside and is characterised by large open fields, small blocks of woodland and discrete, attractive villages.

2.2 The site is 25.3 hectares in area and at its northern end comprises a narrow strip of land leading southwards from the A120 Coggeshall Road. This narrow strip would accommodate the proposed access route to the IWMF. The route would utilise the existing junction off the A120 and the majority of the length of private road which currently provides access to the existing quarry workings on land to the north of the intended site of the IWMF. The private access road leads down from the A120 into the attractive wooded valley of the River Blackwater. This part of the application site lies within the Upper Blackwater Special Landscape Area (SLA), as defined in the Braintree District Local Plan Review (LP). The access road then climbs gently before reaching its junction with Church Road, a lightly trafficked rural road linking the settlement of Bradwell with various farms and dwellings to the east. Church Road provides a link to Cuthedge Lane which leads to Coggeshall Hamlet. The existing length of access road between the A120 and the Church Road is two lane, although it narrows to a single lane at the junction.

2.3 After crossing Church Lane, the access road continues southward, through agricultural land, as a single lane route with passing bays until it reaches Ash Lane. Ash Lane is a quiet rural lane edged with trees in the vicinity of the junction. At both the Church Road and Ash Lane crossing points, the access road is single lane with signs indicating that vehicles using the access road must stop at the junction before crossing onto the next section of access road. Steel bollards are sited at the corners of the Ash Lane and Church Road junctions in order to discourage vehicles from attempting to turn onto the public highway from the access road.

2.4 The access road continues southward into sand and gravel workings known as Bradwell Quarry. The proposed access to the IWMF would continue in cutting alongside a length of restored sand and gravel workings to the west of the existing quarry. To the south of the quarry, the application site widens into an irregular shaped plot of land.

2.5 This part of the application site, would accommodate the IWMF. It is situated at the southern end of the former Rivenhall Airfield. At present, it accommodates a former aircraft hanger (known as hangar No 2), and includes concrete hardstandings and runway, agricultural land and semi-mature woodland containing 6 groups of trees and 11 individually preserved trees which are the subject of Tree Preservation Orders (TPOs). Hangar No 2 is presently used for the storage of grain.

2.6 The northwestern corner of this irregular shaped plot accommodates the Grade II listed Woodhouse Farm buildings. This group of buildings are in a run-down and semi derelict condition. The farmhouse has been unoccupied for many years. The tiled roof has deteriorated to such an extent that it has had to be covered in metal cladding for protection, and several of the windows are broken and open to the elements. A structure, made of steel scaffolding, has been erected around the adjacent bakehouse in an attempt to preserve that building. However, it appears that the roof and top portions of the walls of the bakehouse have collapsed. The site is heavily overgrown and vegetation prevents ready access to this structure and an adjacent water pump, which is also listed. The former garden of Woodhouse Farm is overgrown and unkempt. Detailed descriptions of the listed buildings in this group can be found in Appendix 3 of the SOCG (Document CD/13/4).

2.7 To the east of the application site there are agricultural fields identified as being within the control of the applicants. Approximately 400m to the east of the application site boundary and Woodhouse Farm, lies a group of buildings, including the Grade II listed Allshot's Farm. However, views of this group of buildings from the west are dominated by the presence of a scrap vehicle business which operates near Allshot's Farm. Vehicles are piled on top of one another and screen views of Allshot's Farm from the vicinity of Woodhouse Farm.

2.8 Approximately 500m to the south east of the application site, beyond agricultural fields, there is a group of buildings known as the Polish site. These buildings are used by a number of businesses and form a small industrial and commercial estate to which access is gained via a public highway leading from Parkgate Road. Parkgate Road runs in an easterly direction from its junction with Western Road. It is about 1km from the application site and is separated from the site by a number of large open fields and two blocks of woodland, one being an area of mature woodland known as Storey's Wood.

2.9 To the south west of the application site, just over 1 km away, lies the village of Silver End. The village has a substantial Conservation Area and contains a large number of listed buildings, primarily related to the garden village developed in association with the Crittall company. One of the listed buildings is Wolverton which lies at the northeastern edge of the village and overlooks the open fields separating the village from the application site.

2.10 Sheepcotes Lane runs from the northeastern corner of Silver End in a northerly direction. At a bend in the lane, approximately 500m from the settlement, lies Sheepcotes Farm, another Grade II listed building. This farmhouse lies on the eastern side of Sheepcotes Lane and is about 500m west of the application site and 600m from the proposed IWMF. However, the farmhouse lies adjacent to a cluster of structures. On the eastern side of this cluster lies another large hangar associated with the former airfield, known as Hangar No 1. Although apparently not in use at present, this hangar has been used in the past for industrial/commercial purposes. There is also a tall tower of lattice construction, previously associated with the airfield but now used for telecommunications purposes.

2.11 Further along Sheepcotes Lane to the northwest of the main element of the application site lies a group of dwellings which includes a listed building known as Goslings's Farm. This dwelling is about 1km from the site of the proposed IWMF. The group of dwellings is separated from the application site by an area of land which has been previously worked for the extraction of minerals. Much of the land has been restored to agricultural use and includes a bund which is to be landscaped and planted.

2.12 To the north of the application site lies the listed building of Bradwell Hall. This building is sited only about 200 metres from the eastern edge of the existing haul road. However, it is some 1.5 km from the main element of the application site and is well screened from the site by the topography of the ground and existing trees and vegetation.

2.13 Nearer the main element of the application site there are a number of dwellings served by Cuthedge Lane, which runs in an east-west direction approximately 700 metres from the site. Herons Farm and Deeks Cottage lie to the south of Cuthedge Lane and are separated from the application site by open fields and land which is being worked for mineral extraction. At present a bund forming a noise barrier for the mineral workings helps to screen the application site from these dwellings. However, the bund is a temporary structure. Further to the east, on the northern side of Cuthedge Lane lies a farmhouse known as Haywards. This dwelling is about 700 metres from the edge of the application site and has views of the site across the flat open fields and site of the former airfield.

2.14 Long distance views of the application site can be gained from a few locations on high ground to the north of the A120. The existing telecommunications tower near Sheepcotes Farm can be seen from some viewpoints on the A120; from viewpoints on high ground to the north of the A120; from a few locations on the B1024 road linking Coggeshall and Kelvedon which is about 3km to the east of the site; and in views about 1km to the south from Parkgate Road/Western Road, as it leads towards Silver End.

2.15 A number of footpaths cross the site. Three footpaths (Nos FP19, FP57 and FP58), including the Essex Way, are crossed by the existing quarry access road. The proposed extended access road would cross FP35. In addition, FP8 which runs approximately north/south in the vicinity of the site passes alongside the complex of buildings at Woodhouse Farm. Hangar No 2 on the application site is visible from various locations along these footpaths.

SECTION 3 - PLANNING POLICY

3.1 Relevant planning policy is set out in the SOCG.

The Statutory Development Plan

3.2 The statutory development plan comprises the following documents:

- East of England Plan, The Revision to the Regional Spatial Strategy for the East of England, (May 2008) (EEP - Document CD/5/1);
- 'Saved' policies from the Adopted Essex and Southend-on-Sea Replacement Structure Plan 1996-2011 (2001) (ESRSP - Document CD/5/3);
- 'Saved' policies from the Essex and Southend Waste Local Plan (Adopted September 2001) (WLP - Document CD/5/4);
- 'Saved' policies from the Braintree District Local Plan Review (Adopted July 2005) (BDLPR - Document CD/5/5); and
- 'Saved' policies from the Essex Minerals Local Plan First Review 1996 (MLP - Document CD/5/6).

3.3 EEP Policy MW1 indicates that waste management policies should seek to ensure timely and adequate provision of facilities required for the recovery and disposal of the region's waste, whilst amongst other things, minimising the environmental impact of waste management. Policy WM2 sets targets for the recovery of municipal and C&I waste and Policy WM3 indicates that the East of England should plan for a progressive reduction in imported waste, indicating that allowance should only be made for new non-landfill waste facilities dealing primarily with waste from outside the region where there is a clear benefit.

3.4 The application site includes a 6 ha area of land identified as a "preferred location for waste management" (WM1) in Schedule 1 of the WLP. Policy W8A indicates that waste management facilities will be permitted at the locations shown in Schedule 1, subject to various criteria including requirements that there is a need for the facility and it represents the Best Practical Environmental Option (BPEO). The policy indicates that integrated schemes for recycling, composting, materials recovery and energy recovery from waste will be supported, where this is shown to provide benefits in the management of waste which would not otherwise be obtained. Policy W3C indicates that, in the case of facilities with an annual capacity over 50,000 tonnes, measures will be taken to restrict the source of waste to that arising in the plan area, except where it can be shown, amongst other things, that the proposal would achieve benefits that outweigh any harm caused.

3.5 Policy RLP27 of the BDLPR indicates that development for employment uses will be concentrated in towns and villages. RLP78 indicates that the countryside will be protected for its own sake by, amongst other things, restricting new uses to those appropriate to a rural area and the strict control of new building outside existing settlements.

3.6 With the exception of the access road, part of which lies within the designated Upper Blackwater Special Landscape Area, the application site is not the subject of any allocations in the BDLPR. Furthermore, it is not referred to in Braintree District Council Draft Local Development Framework Core Strategy (2008).

3.7 I note that on 20 May 2009, the High Court upheld in part a challenge to the East of England Plan and that Policies H1, LA1, LA2, LA3 and SS7 were remitted to the SoS to the extent identified in the Schedule to the Court Order and directed that those parts of the RSS so remitted be treated as not having been approved or adopted.

National Planning Policy

3.8 The following national planning policy documents are relevant:

- The Planning System: General Principles (Document CD/6/15);
- Planning Policy Statement (PPS) 1 – Delivering Sustainable Development (Document CD/6/1);
- Planning Policy Statement: Planning and Climate Change – Supplement to Planning Policy Statement (PPS) 1 (Document CD/6/2);
- Planning Policy Statement (PPS) 7 – Sustainable Development in Rural Areas (Document CD/6/4);
- Planning Policy Statement (PPS) 9 – Biodiversity and Geological Conservation (Document CD/6/5);
- Planning Policy Statement (PPS) 10 – Planning for Sustainable Waste Management (Document CD/6/6);
- Planning Policy Guidance (PPG) 13 – Transport (Document CD/6/7);
- Planning Policy Guidance (PPG) 15 – Planning and the Historic Environment (Document CD/6/8);
- Planning Policy Guidance (PPG) 16 – Archaeology and Planning (Document CD/6/9);
- Planning Policy Statement (PPS) 22 – Renewable Energy (Document CD/6/10);
- Planning Policy Statement (PPS) 23 – Planning and Pollution Control (Document CD/6/11);
- Planning Policy Guidance (PPG) 24 – Planning and Noise (Document CD/6/12);
- Planning Policy Statement (PPS) 25 – Development and Flood Risk (Document CD/6/13);
- Minerals Policy Statement (MPS) 2 – Controlling and Mitigating the Environmental Effects of Minerals Extraction in England (Document CD/6/14); and
- Consultation on the new Planning Policy Statement (PPS) 15 – Planning for the Historic Environment (Document CD/6/17).

Other Relevant Law and Policy

3.9 The SOCG identifies the following law and policy:

- Consolidated EC Framework Directive on Waste 2006/12/EC (previously the Waste Framework Directive 75/442/EEC (as amended) (Document CD/4/1);
- New EC Framework Directive on Waste 2008/98/EC (Document CD/4/2);
- EC Waste Incineration Directive 2000/76/EC (Document CD/4/3);
- Waste Strategy for England 2007 (May 2007) (Document CD/8/1); and
- Joint Municipal Waste Management Strategy (JMWMS) for Essex (2007 to 2032) (Document CD/8/2).

SECTION 4 - PLANNING HISTORY

4.1 The planning history of the application site and the adjacent Bradwell Quarry site is set out in the Final SOCG between the applicants and ECC (Document 13/4).

4.2 Planning permission for a recycling and composting waste management facility on the site was granted in February 2009 (Ref. ESS/38/06/BTE). That scheme is known as the RCF, although the permission has not yet been implemented. The consent relates to the development of a facility for the recovery of recyclable materials such as paper, card, plastic, metals, and fine sand and gravels from residual municipal waste. It includes a waste treatment centre utilising Anaerobic Digestion (AD) technology and Enclosed Composting for the treatment of residual municipal waste. It is intended to have an approximate eventual input of up to 510,000 tonnes per annum (tpa).

4.3 The consent includes for the redevelopment of Woodhouse Farm, which would be used as an Education Centre with associated car and coach parking for the public. It also includes the prior removal of overburden and other material at the site to lower the plant at least 11 m below existing ground level. This is intended to provide maximum visual impact mitigation and to safeguard the protection of national mineral reserves. The planning application and associated documents can be found at Documents CD/3/1 to CD/3/9

4.4 Planning permission reference ESS/07/08/BTE was granted for the extraction of sand and gravel at Bradwell Quarry, together with processing plant, and access via an improved existing junction on the A120. The permission has been implemented with a completion date of 2021. Application reference ESS/15/08/BTE is for a variation of ESS/07/98/BTE to allow amended restoration levels and the 'New Field Lagoon'. The Council has resolved to grant permission subject to completion of a legal agreement which has not yet been signed. In addition, there are a number of other planning permissions with respect to the processing plant at Bradwell Quarry.

SECTION 5 - THE PROPOSED DEVELOPMENT

5.1 The application site is identical to that of the permitted 510,000 tpa RCF. The latest proposals have evolved from the RCF and are therefore known as the evolution of the Recycling and Compost Facility (eRCF). The site is owned by the applicants.

5.2 The site area of 25.3 ha would be utilised as follows:

- 6 ha (approximately) for the proposed integrated waste management facility (IWMF) including buildings and structures;
- 2.6 ha for the redevelopment of Woodhouse Farm;
- 10.6 ha including the fresh water lagoon and proposed areas of landscaping;
- 5.1 ha for the construction of the extended haul road; and
- 1 ha which is the existing haul road to the quarry to be utilised by the proposals.

5.3 The eRCF would provide an integrated recycling, recovery and waste treatment facility. The proposals include:

1. an AD plant treating Mixed Organic Waste (MOW), which would produce biogas that would be converted to electricity by biogas engine generators;
2. a Materials Recovery Facility (MRF) for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals;
3. a Mechanical Biological Treatment facility (MBT) for the treatment of residual Municipal Solid Wastes (MSW) and/or Commercial and Industrial (C&I) waste to produce a Solid Recovered Fuel (SRF);
4. a De-inking and pulping paper recycling facility to reclaim paper pulp (this is described as Market de-inked paper pulp (MDIP));
5. a Combined Heat and Power (CHP) plant utilising SRF to produce electricity, heat and steam;
6. the extraction of minerals to enable the proposed buildings to be partially sunken below ground level within the resulting void;
7. a Visitor/Education Centre;
8. an extension to the existing access road serving Bradwell Quarry;
9. the provision of offices and vehicle parking;
10. associated engineering works and storage tanks; and
11. landscaping.

5.4 The proposed IWMF would provide treatment for 522,500 tpa of waste of a similar composition to that which would be treated by the RCF. It is intended to treat 250,000 tpa of MSW and/or C&I waste; 100,000 tpa of mixed dry recyclables (MDR) or similar C&I waste; 85,000 tpa of mixed organic waste (MOW) or similar C&I waste; and 87,500 tpa of SRF. In addition it would provide a facility for the recovery and recycling of 331,000 tpa of imported waste paper. The IWMF has therefore been designed to import and recycle or dispose of a total of up to 853,500 tonnes of waste annually.

5.5 A comparison of the permitted RCF scheme and the eRCF application is presented on Table 1 and Figures PI-1 and PI-2 of the SOCG. These tables correct a number of typographical errors that were made in the original ES dated August 2008. The SOCG also provides a description of the various elements of the eRCF scheme.

5.6 The AD plant would treat MOW from kerbside collected kitchen and green waste or similar C&I waste. It would have a treatment capacity of 85,000 tpa. As indicated above the AD process would produce biogas which would be converted to electricity. The residues from the AD process would be a compost-like output. Dependant on the quality of the waste feedstock, the resultant compost could be suitable for agricultural or horticultural uses.

5.7 The MRF would process up to 100,000 tpa of imported MDR and recover paper and residues from the MBT and AD processes. Materials recovered by the MRF would be baled and bulked up for export from the site and further reprocessing or recycling. The MRF would have a total integrated throughput of 287,500 tpa linked to other eRCF processes.

5.8 The MBT facility would treat 250,000 tpa of MSW and/or C&I waste. It would comprise five 'biodrying Halls', each with a capacity of 50,000 tpa. Before entering the MBT, the waste would be shredded to produce a consistent feedstock for the 'biodrying' process. At the end of this aerobic drying process, the weight of the waste in the MBT would be reduced by 25%. The resulting material, known as SRF, would be stabilised, sanitised and would be without noticeable odour. During the biodrying process, air would be extracted from the MBT and routed through the buildings to the CHP unit where it would provide combustion air that would be scrubbed and cleaned before discharge to the atmosphere via the CHP stack.

5.9 The Pulp Paper Facility would be used to treat up to 360,000 tpa of selected waste paper and card. This would comprise 331,000 tpa of imported materials, as well as 29,000 tpa of recovered paper and card from the MRF and MBT. The facility would produce up to 199,500 tpa of recycled pulp which would be transported off-site and used to manufacture materials such as graphics, photocopier or writing paper.

5.10 The CHP plant would treat up to 360,000 tpa of material. Its feedstock would comprise up to: 109,500 tpa of SRF produced by the MBT; 10,000 tpa of residues from the MRF; up to 165,000 tpa of process sludge from the Paper Pulping Facility; and 87,500 tpa of SRF manufactured and imported from elsewhere. The energy produced by the CHP would be converted into electricity, heat and steam. Part of the electricity would be exported from site to the National Grid, whilst the remainder would be used as a source of power for the eRCF processes. The extracted air from all the processes on-site would be used as combustion air for the CHP, so that the CHP stack would be the only stack.

5.11 The eRCF would produce between 36 MW and 43 MW per annum of electricity. This would be generated on the site from the AD process (3 MW per annum) and between 33 MW to 40 MW per annum from the CHP plant. Approximately half the energy would be utilised on the site, enabling approximately 18 MW per annum (14.73 MW from the CHP and 3 MW from the AD) to be exported to the National Grid.

5.12 In order to enable the IWMF's buildings to be partially sunk below ground level, 760,000 m³ of boulder clay, 415,000 m³ of sand and gravel and 314,000 m³ of London clay would be excavated prior to its construction. Where possible, the excavated materials would be utilised in the construction of the IWMF, otherwise it would be exported from the site. Sand and gravel could be processed at the adjacent Bradwell Quarry, subject to a further planning permission related to that site.

5.13 Listed building consent would be applied for to enable the Grade II Listed Woodhouse Farm house and associated buildings to be redeveloped and refurbished for use as a Visitor and Education Centre. This would provide an education facility connected to the operation of the IWMF. It would also provide an area for a local heritage and airfield history displays.

5.14 The existing access road to Bradwell Quarry would be extended approximately 1 km south through the quarry workings to the IWMF. All traffic entering or leaving the IWMF would use the A120 and the existing junction which presently serves Bradwell Quarry. The extension to the existing access road through Bradwell Quarry would be an 8 m wide metalled road located in an existing and extended cutting. The existing crossing points with Church Road and Ash Lane would be improved with additional speed ramps, signalling and signage, but would remain single lane.

5.15 Offices would be provided within the IWMF. A staff and visitors car park would be developed west of Woodhouse Farm. The staff and visitor car park would not be used by HGV traffic.

5.16 The IWMF would comprise 63,583 m² of partially sunken buildings and treatment plant. The MRF, MBT and Paper Pulping Facility would be housed in two arch-roofed buildings adjacent to each other, each measuring 109 m wide x 254 m long and 20.75 m in height to their ridges. Both buildings would have "green" roof coverings capable of sustaining vegetation growth, reducing their visual impact and providing a new area of habitat to enhance bio-diversity. To the south of the main buildings there would be a water treatment building and a CHP Plant with a chimney stack 7 m in diameter extending 35 m above the site's existing ground level. In addition there would be a turbine hall; an electrical distribution hall; a Flue Gas and Exhaust Air Clean Up Complex; three AD tanks and an AD gasometer.

5.17 The IWMF would be sited below natural ground level. In order to maximise the void space, the sides of the void would be constructed with a retaining wall. The base of the void would be approximately 11 m below ground level, such that the ridge of the arched buildings would be approximately 11 m above natural ground levels, and the tops of the AD and gasometer tanks about 12 m above ground level. Cladding materials to the buildings would be dark in colour. Where the CHP stack extended above the surrounding woodland, (about 20 m above the existing woodland) it would be clad in stainless steel or a similar reflective material. This would help to minimise its visual impact by reflecting and mirroring the surrounding environment.

5.18 The main structures of the IWMF, except the CHP stack, would be no higher above the surrounding ground level than the existing hangar currently on the Site, which is about 12.5 m maximum height. The approximate footprint of the IWMF's buildings and structures is 6 ha and thereby substantially larger than the existing hangar which is only about 0.3 ha. The IWMF would project north of the existing woodland towards the adjacent quarry.

5.19 Approximately 1.7 ha of woodland would be removed, together with two Native English Oak trees and two smaller groups of trees. All these trees are covered by Tree Preservation Orders. A strip of woodland, about 20m to 25m in depth, would remain adjacent to the void created by the extraction of the minerals and overburden. The remaining woodland around the IWMF would be managed to improve both its ability to screen the development and enhance biodiversity. In addition, 19.1 ha of open habitats would be lost, including areas of grassland, arable land and bare ground.

5.20 Mitigation proposals include the planting of approximately 1.2 ha of new species rich grassland. A further 1 ha of managed species rich grassland would also be provided to the east of Woodhouse Farm outside the Planning Application area. In addition, a further 0.6 ha of new species rich grassland would be provided next to Woodhouse Farm. The green roof on the main buildings of the proposed eRCF would be about 5ha in area and allowed to establish into open habitat.

5.21 Planting would be undertaken on shallow mounds which are proposed on the southwest side of the building. The mounds would have a maximum height of 4m and a width of 20 to 25m. A total of about 2km of new hedgerow planting would be established on the northern site boundary and to either side of the extended haul road. Enhanced planting is proposed between the car park and Woodhouse Farm buildings, and a block of woodland planting would be sited on a triangular plot at the northeast side of the site. These areas of new planting (totalling about 2.2 ha), together with management of existing woodland, would enhance screening of the site and its ecological value. In addition to this planting, a 45 m wide belt of trees (approximately 1.2 ha in area) would be established outside the application area.

5.22 External lighting levels would have an average luminance of 5 lux. No external lighting, other than that used on an infrequent and intermittent basis for safety and security purposes, would operate during the night.

5.23 The IWMF would generate up to 404 daily Heavy Goods Vehicle (HGV) movements comprising 202 into and 202 out of the site a day. There may also be approximately 90 Light Goods Vehicle or car movements associated with staff, deliveries and visitors. During the construction phase, the IWMF would generate about 195 HGV movements in and 195 HGV movements out.

5.24 Waste would be delivered in enclosed vehicles or containers. All waste treatment and recycling operations would take place indoors under negative air pressure and within controlled air movement regimes, minimising the potential for nuisance such as odour, dust and litter which could otherwise attract insects, vermin and birds. Regular monitoring for emissions, dust, vermin, litter or other nuisances would be carried out by the operator to meet the requirements of the Environmental Permit that would need to be issued by the Environment Agency (EA) for operation of the IWMF.

5.25 The proposed hours of operation for the receipt of incoming waste and departure of outgoing recycled, composted materials and treated waste would be 07:00 to 18:30 Monday to Friday and 07:00 to 13:00 on Saturday with no normal deliveries on Sundays, Bank and Public Holidays. The only exception would be, if required by any contract with the Waste Disposal Authority, that the Site accept and receive clearances from local Household Waste Recycling Centres on Sundays, Bank and Public Holidays. Due to the continuous operational nature of the waste treatment processes, the IWMF would operate on a 24 hour basis but would not involve significant external activity outside the normal operating hours for the receipt of waste.

5.26 During construction of the IWMF, a period of 18 to 24 months, it is proposed that the working hours would be 07:00 to 19:00 seven days a week.

5.27 The IWMF includes a Waste Water Treatment facility. All surface water outside the buildings would be kept separate from drainage systems within the buildings. External surface water from roofs and hardstandings, and groundwater pumped during construction, would be collected and stored within the Upper Lagoon proposed to the north of the buildings, which would be below natural ground levels. All drainage and water collected within the buildings and used in the Pulp Facility would be treated and cleaned within the Waste Water Treatment facility. It is anticipated that the IWMF would be largely self sufficient in water, by utilising rain/surface water, and would only require limited importation of water. This could be sourced either from New Field Lagoon, which is part of the existing drainage system for the restored mineral working to the north, licensed abstraction points, or obtained from the utility mains.

5.28 The internal waste reception bunkers would provide buffer storage for about 2 days of imported waste to the MBT and approximately 5 days for the AD, Pulp Facility and CHP, to ensure that waste processing and treatment operations could run continuously and that there would be spare capacity in the event of any planned or unforeseen temporary shutdown of the IWMF.

5.29 The IWMF would provide employment for about 50 people.

SECTION 6 - THE CASE FOR THE APPLICANTS

The Environmental Statement and its review by ERM

6.1 The audit of the ES by Environmental Resources Management (ERM) for Braintree DC (Document CD/2/11) found that the ES was generally of good quality with very few omissions or points of clarification required. Moreover, it indicated that there was good provision of information with only minor weaknesses which were not critical to the making of any decision. The ES audit did not simply focus on process and structure. ERM indicated that it had applied its technical expertise to make informed judgements on the robustness of the submitted assessments. Although ERM considered there was an overestimation of the likely 'demand', it indicated that as a technical assessment of particular topics based on the stated application, the Environmental Impact Assessment (EIA) was generally competent and could be considered to comply with the EIA Regulations.

6.2 Braintree DC was advised by ERM that on the majority of the issues (generally other than need and highways) the ES was a competent technical assessment and supported the assessment of the effects as being "not significant". The audit supports the assessment of the great majority of the likely impacts of the proposals. Moreover, since that audit was undertaken further work has been done in producing the Regulation 19 information and the Addendum to the ES.

6.3 The EIA procedures have been complied with. As regards any concern that the Addendum or other additional information has not been properly made available for public consultation and comment, it is noteworthy that the time allowed for comments on the Addendum was the same as for the main ES, which was itself in accordance with the period set out in the Regulations for the ES. Moreover, it is lawful for additional material to be taken into account at the inquiry, since Regulation 19 (2) of the EIA Regulations 1999 allows such material to be consulted upon at

inquiry. (See Sullivan J. in *R. (on the application of Davies) v. Secretary of State* [2008] EWCA 2223 (Admin) at paragraphs. 41-47).

Common ground

6.4 The following matters can be regarded as common ground:

- (i) The matters set out in the SOCG at least as between ECC and the Applicant.
- (ii) The proposals would generate benefits in that they would allow for sustainable waste management and permit a move further up the waste hierarchy. This appears to be accepted whether or not the paper recovery process is termed "industrial".
- (iii) It is now agreed with the Local Councils Group (LCG) that there is an undisputed need for the MBT facility in terms of MSW and C&I and that the capacity gap is at least 326,800 tpa (set against a capacity of the MBT of 250,000 tpa). The capacity gap for C&I facilities therefore well exceeds the capacity of the plant proposed on the Site.
- (iv) The grant of permission for the RCF is a material consideration.
- (v) Documents GF/17 and GF/27 represent agreement between the applicants and LCG regarding the considerable carbon savings which the eRCF represents, both in comparison with the RCF and the base case in Essex without either the eRCF or RCF, but assuming current trends in recycling etc. Such savings take into account an average distance travelled per kg of waste of 100 km. The submission by Saffron Walden Friends of the Earth (SWFOE) that biogenic CO₂ has not been taken into account is correct to a limited extent, but only because IPPC guidance does not require biogenic CO₂ to be included. The SWFOE argument is with current guidance.
- (vi) When considering the implications of the proposals for what might be termed, generically, "countryside issues" under the Development Plan and PPS7, it is appropriate to take into account the following factors -
 - (a) The remaining infrastructure of the former airfield;
 - (b) The sand and gravel workings and its associated infrastructure;
 - (c) The former radar mast now used for telecommunications;
 - (d) The extent to which the proposals may strengthen or enhance tree cover, ecological interest and/or biodiversity; and
 - (e) The extant RCF permission and fallback position.
- (vii) It also now appears to be accepted that there will not be a plume from the stack and it does not appear to be disputed that the modelled emissions show that there should not be material concerns regarding the proposals in air quality and health terms.
- (viii) The appropriateness and acceptability of the ES given the ERM audit (Document CD/2/11).
- (ix) The professional planning witness for the LCG did not consider the proposals objectionable because of the inclusion of incineration of waste through the CHP plant with recovery of energy, and did not consider that

there was any issue arising with regard to compliance with WLP Policy W7G. Nevertheless, this policy is out of date and out of step with modern waste policy given its heavy reliance on BPEO, which is no longer national policy as set out in PPS10. SWFOE acknowledged the error in their initial evidence regarding the strict application of R1 and, as the note on R1¹ (Document GF37) makes clear, if the Waste Directive 2008 applies to the eRCF, the use of the CHP would be regarded as recovery not disposal. Regardless of the strict characterisation of the CHP plant, the fact that it would meet the thermal efficiency requirements of the new Directive demonstrates that it is nonetheless a sustainable proposal.

6.5 SWFOE characterise the CHP as disposal rather than recovery of waste as a matter of EU law, reference being made to paragraphs 2.153-2.158 of the Defra Stage One: Consultation on the transposition of the revised Waste Framework Directive (Directive 2008/98/EC) (July 2009). The relevant extract is attached to Document OP/2. The point, if it is a good one, applies to all if not most CHP plant as the Defra Consultation points out. This does not alter the following important points:

- (i) CHP is currently supported by WSE 2007 and other national/regional policy because of its ability to recover energy whether or not it is technically recovery or disposal in EU terms; and
- (ii) The Waste Directive 2008 seeks to address the categorisation issue as the Defra Consultation explains at paragraphs 2.159-2.181. It is to be noted that Defra's view is that the burning of non-MSW waste streams in a plant designed to burn MSW (as here) would also be recovery under the new provisions (See paragraphs 2.176, 2.177 of the Defra Consultation).

Comparison between the eRCF and the RCF and the fallback position

6.6 The RCF should figure prominently in the determination of the eRCF application for two reasons:

- (i) the grant of planning permission for the RCF (on 26 February 2009) establishes the principle of development of a major waste management facility on the site against the background of current policies. SOCG Table 1 & Figs P1-1 & P1-2 set out a detailed explanation of the revisions and additions to the RCF's waste treatment capacity that have resulted in the eRCF and a detailed comparison of the developments. The waste management capacities of imported waste of similar composition (510,000 tpa & 522,500 tpa) are similar, and therefore the 'need' for this treatment capacity has already been established. The design, layout, scale, dimensions and external finishes of the eRCF, on the same site, are similar to the RCF. The main differences are the addition of the Pulp Facility and CHP plant and stack.
- (ii) The RCF provides a fallback position for the decision on the eRCF because

¹ See the Waste Directive 2008 Annex II "Recovery Operations" which includes as recovery (rather than disposal) "*RI use principally as a fuel or other means to generate energy*". Although the formula has been applied, in fact it applies to facilities dedicated to MSW only not to C&I or mixed facilities as the footnote reference in Annex II makes clear. However, compliance with the formula makes it clear that to the extent that the CHP were considered to be "*dedicated to the processing of municipal solid waste only*" it would comply.

the applicants will implement the planning permission for the RCF (Document CD3/1) if planning permission is not granted for the eRCF. The RCF would have impacts which would occur in any event should permission for the eRCF be refused. Since the site benefits from the RCF permission, it is appropriate to consider the proposals for the eRCF not only on their own merits but against that extant permission. As a permission for which there is at least a reasonable prospect of implementation should permission for the eRCF be refused, it is a material consideration and provides a baseline against which the eRCF should be considered. It is therefore unnecessary to re-consider those matters in respect of which no significant change arises.

6.7 The reason for the delay in the issue of the RCF permission was the lengthy delay in the production of the draft S106 and since it was only issued in Feb 2009, it is not surprising given the call-in that it has not been implemented. The suggestion by the LCG that the RCF scheme was indicative and a stalking horse for something else is refuted. Discussions have taken place over several years between the applicants and ECC since the allocation of the site in the WLP. During that process, indicative ideas were put forward.

6.8 The RCF represents appropriate technology as confirmed by ECC and as set out in the JMWMS. The LCG confuses the provision of appropriate technology with the development of different and even better facilities which are represented by the eRCF.

6.9 The RCF permission would not need to be amended before implementation. In contrast, the Basildon permission would have to be amended to meet the requirements of the OBC2009. The applicants have unashamedly been waiting for the ECC contract. In due course they would enter a joint venture with a major waste company. However, it would not be in the commercial interests of the applicants for details of current negotiations to be made available. In addition there are large quantities of C&I waste to be treated and every prospect of implementation of the scheme for C&I waste only.

The eRCF represents a highly sustainable evolution from the RCF, allowing for the disposal of residual waste to move higher up the waste hierarchy and the efficient use of CHP together with the MDIP. This is an important factor supporting the grant of planning permission for the current application. The consultation response from the Commission on Architecture and the Built Environment (CABE) to the RCF application on 25.10.06 (Document GF/2/B/Appx 1) anticipated the evolution of the proposals now found in the eRCF. The CABE response stated "We would encourage the applicant and the local waste authority to bear in mind the likelihood of changing techniques and requirement for dealing with waste in the years ahead, and to envisage how the facility might need to be adapted and/or extended to meet future needs." By integrating the various recovery, recycling and treatment processes, it would be possible to re-use outputs from individual waste treatment processes that would otherwise be wasted and/or require transportation off site. It is consistent with the hierarchical requirements of waste management. The proposal would be environmentally and financially sustainable.

6.10 The additional benefits of the eRCF are considerable:

- (i) The eRCF would accommodate the only proposed CHP facility capable of treating the SRF to be produced by MBT through the MSW contract. It

would produce its own SRF from C&I waste and its own MBT, if it did not obtain the ECC contract. A CHP facility capable of utilising the SRF produced from the county's MSW is excluded from the reference project and proposed procurement for the competition reasons set out in OBC 2009 paragraphs 4.3.11-4.3.14 (Document CD/8/6).

- (ii) The MDIP would provide a unique facility in the UK after 2011 for the treatment and recovery of paper waste to produce high quality paper pulp. It would take forward Defra's policy in WSE 2007 to prioritise the increased recycling and recovery of paper and to take advantage of the carbon benefits it would provide.
- (iii) Given the agreed CO₂ savings set out in Document GF/27, the proposals would meet the strategies in both WSE 2007 and the UK Low Carbon Transition Plan (July 2009) pages 162-3 (Document CD/8/8) in relation to the section dealing with reducing emissions from waste. If the UK is seeking to reduce emissions from waste of around 1 mpta, this site alone would contribute about 7% of that objective.

Need for the eRCF proposals

6.11 There is a demonstrable need in Essex for new facilities to manage both MSW and C&I wastes. Both the RCF and the eRCF would be well-equipped to deal in a modern sustainable manner with MSW and/or C&I whether or not the applicants (with an operator partner) win the MSW contract. Further, there will be no MDIP facility in the UK after 2011 to produce high quality paper pulp. The eRCF MDIP would be capable of not only meeting the Essex and the East of England's needs in terms of recycling/recovery of high quality paper (thus meeting WSE 2007 key objectives) but providing a facility for a wider area in accordance with EEP Policy WM3.

6.12 The EEP sets challenging targets for the recycling, composting and recovery of both MSW and C&I waste in accordance with the WSE 2007. By 2015, 70% of MSW and 75% of C&I waste must be recovered. Essex is expected to manage 3.3mtpa MSW and C&I waste during the period 2010/11 to 2015/16 rising to 3.7mtpa during the period 2015/16 to 2020/21. However, the need case has been assessed on a more conservative basis (2.4mtpa by 2020/21) put forward by the East of England Regional Assembly (EERA) in a report entitled 'Waste Policies for the review of the East of England Plan' dated 29 June 2009 (Document CD/5/2). As indicated in Document GF/33, consultation has commenced on this matter as part of the process of review (Document CD/5/8). There is a small change in the figures contained in the consultation document compared to those set out in June 2009 in terms of predicted MSW arisings. However, C&I predictions remain the same and the changes do not have a material impact on the analysis undertaken by the applicants.

6.13 The potential treatment capacity of the currently permitted facilities in Essex is 1.375 mtpa. There do not appear to be any current plans to bring capacity forward on the WLP preferred sites that are not already the subject of a resolution to grant planning permission. ECC indicate that it is not possible to predict whether other proposals will come forward that would be acceptable. Whatever proposals may be in contemplation by others, they are inherently uncertain. Their delivery and acceptability is uncertain, as is the extent to which they would be able to compete in the forthcoming PFI procurement.

6.14 Even with the application proposals in place, there would be a need for additional facilities, as demonstrated by the shortage of treatment capacity that exists to deal with the arisings that are specified in the regional apportionment set out in the EEP. If the reduced figures in the EERA Report of June 2009 are used, there would still be a shortage of treatment capacity and a need for additional facilities. Notwithstanding this, the figures set out in EEP Policy WM4 are the determinative figures for the purposes of this application.

6.15 The analysis undertaken in Document GF/4/A confirms that either the RCF or eRCF is critical in terms of meeting the county's targets. Even on the conservative basis referred to at paragraph 6.12 above, a serious treatment capacity gap would remain ranging from around 410,000 to 540,000 tpa. This indicates that at least one additional facility would be required regardless of whether the RCF or the eRCF were contracted to treat MSW.

6.16 The 'Updated Capacity and Need Assessment – Final Report' (Document CD/10/4) prepared by ERM for ECC in July 2009 is inaccurate. For example page D11 in Annex D identifies sites which should not be included in the list as they do not contribute to the current capacity to treat C&I waste. Contrary to the claim in paragraph 6.1 of Document LC/1/E that the overall capacities in the 2009 ERM report are as accurate as they can be, it is clear that the document contains errors. Moreover, that report will not form part of the evidence base for the Waste Development Document as stated in paragraph 3.1 of Document LC/1/E. ECC will arrange for a new report to be prepared.

6.17 Without thermal conversion of residual waste, Essex would need to permit at least 1 or 2 new large and high input capacity landfills. Such capacity is unlikely to come forward because of the difficulty of securing planning permission for disposal capacity where insufficient treatment capacity exists further up the waste hierarchy, and because of the effect of landfill tax on the economics of disposal against treatment. Thermal treatment of residual waste, incorporating CHP, as strongly supported by the WSE 2007 and the OBC 2008, increases the level of recovery and considerably reduces long term pressure on landfill needs. The policy-supported need case is further supported by the fact that most currently permitted and operational landfill capacity in the county (excepting the recently permitted Stanway Hall 'Landfill' at Colchester, which is tied to the proposed MBT facility, and the Bellhouse site at Stanway) will be closed by 2015 as indicated in Document GF/24. Additional landfill capacity will therefore be required to meet landfill needs even with all treatment capacity in place.

6.18 It appears that the ERM reports had considered "all void space without restriction". Sites such as Pitsea may well be of limited contribution. The applicants approach is therefore a more realistic analysis of landfill capacity than that adopted in the ERM reports.

6.19 The landfill policy and legal regime (including the forthcoming landfill tax increases) provide a disincentive to the continuing rates of use of landfill. In contrast, there are positive incentives for increased recycling and recovery, including the greater commercial attractiveness of recycling and recovery. This is important, since it makes proposals such as the eRCF critical to achieving and reinforcing the objectives of current policy. It is also relevant to claims about inadequacies of paper feedstock which are dismissive of the ability to divert from landfill a significant

quantity of paper and card which is currently landfilled in the East of England at a rate of about 713,000 tpa (Document CD/10/1 pages iii and 78 – Detailed Assessment of East of England Waste Arisings - Urban Mines Report, March 2009).

Relevance of the Essex Waste Management Partnership PFI OBC July 2009

6.20 The need for the eRCF is unaffected by the fact that it is not the reference project in ECC's OBC 2009. The reference project was amended to a single site not because ECC considered the application site to be unsuitable but because ECC did not have control over it, whereas it did control the Basildon site which now forms the sole reference project site. The reference project does not preclude tendering for the ECC MSW contract based on the Basildon Site and/or an additional site, such as the application site. (Paragraph 4.3.19 Document CD/8/6). ECC confirms that both the RCF and eRCF would provide suitable technologies for the proposed ECC waste contract which is explained in the JMWMS at section 4.6 (Document CD/8/2). The applicants will be taking part in the forthcoming public procurement exercise by ECC, involving the application site, whether with the RCF or the eRCF.

6.21 The application site is acknowledged as part of the "competitive landscape" for PFI procurement and is referred to under that heading in the OBC 2009 at paragraph 4.3.4. The OBC does not include provision for C&I waste which lies outside the WDA's duties, although ECC as WPA is required to take account of the need to provide for facilities for such wastes. The OBC 2009 therefore only makes provision for one part of Essex's waste needs and comprises less than 1/3 of the planned budget for ECC's waste, as indicated in Document GF/24.

6.22 Although objectors to the application proposal have made frequent reference to existing and potential increases in recycling, kerbside collections, composting, the provision of local facilities and the like, it is important to recognise that waste does not treat itself and facilities such as the eRCF are required in order to allow ECC to meet its waste targets and to increase still further recycling, treatment and recovery of waste. The proposals will assist in, and not obstruct, a continued increase in recycling and recovery of waste. The PPS10 advice for communities to take greater responsibility for their waste does not obviate the need to make provision for facilities such as the eRCF for the county generally or to meet ECC's share of London's waste.

Waste arisings

6.23 Whether or not the RCF or eRCF were originally proposed for MSW and/or C&I waste is irrelevant, as the applicants have made clear that both facilities could deal with MSW or C&I or both. The document submitted in support of the RCF application considered C&I waste at some length and made it clear before planning permission was granted that at least some of the waste to be dealt with would be C&I. (RCF Supplementary Report at Document CD/3/6, Section 5).

6.24 The treatment capacity gap for C&I waste is such that even if the applicants do not win the ECC MSW contract, there is a sufficient need for the site to deal solely with C&I waste. The first two tables at Document GF/24 show an overall treatment capacity gap (i.e. need) of between 412,762 and 537,762 tpa even on the basis that there is development of both the Basildon Site and the RCF/eRCF. This need is agreed by EEC. Even on the basis of the ERM Reports (Documents CD/10/3 and

10/4) the deduction of the treatment sites agreed with the LCG witness would give rise to a need/capacity gap of at least 326,800 tpa.

6.25 The relevant figure for determining the appeal is, in fact, the 3.7 mtpa in 2020/21 apportioned to Essex by the EEP Policy WM4. The draft figures in the EERA Report of July 2009 (Document CD/5/2), which forms the basis of the consultation currently under way, and those in the ERM Reports, have not yet been subject to the results of consultation and examination and are at a very early stage of consideration. They therefore carry little if any weight and do not provide a justification for departing from the RSS figures having regard to the clear guidance of the Secretary of State in PPS10 at paragraphs 13 to 15.

6.26 The capacity gap which would remain on the basis that both the Basildon and RCF/eRCF facilities are provided would have to be met by other sites. Only 3 of the WLP allocated sites have come forward despite the Plan being adopted in 2001. The allocations are of more than 10 years' standing if the draft plan is considered. The 3 sites which comprise the application site, the Basildon site and the permitted Stanway site, will not meet all of Essex's waste management needs.

6.27 The proposal put forward by Glendale Power for a 30,000 tpa AD power station and associated CHP system at Halstead (Document CD/15/5/B) is considered at Document GF/40. There has been no planning application for such a proposal and it is at an embryonic stage. It does not affect the conclusions of the overall analysis of the need for waste treatment facilities in Essex.

Alternative approach - the ERM Reports (Documents CD/10/3 and 10/4)

6.28 The EEP EiP Report (Document CD/5/7 Chapter 10) does not discuss the methodology or the details of the ERM assessment and cannot be regarded as an endorsement of any specific methodology. In any event, the RSS being at a higher strategic level is likely to have been based on higher level data and not subject to the sort of detailed local information and scrutiny which will be the case with the Essex and Southend waste plan. Notwithstanding this, the key is in the detail and reliability of the data. The EiP's judgment on the reliability of the data for the RSS says nothing about the reliability of the data in the reports of ERM produced for ECC.

6.29 Those who are familiar with the sites referred to in the ERM Reports, are critical of the lack of practicality or realism in the assessment of existing capacity. It is clear from the examples identified at the inquiry that reasonable care has not been used in drafting the "final" ERM 2009 report. The pet crematoria in the 2007 list of sites (Table 3.2, ERM 2007) were plainly unsuitable for inclusion. The Schedule at page C2 of the 2009 ERM report included permitted sites, whereas it was intended to show sites with a committee resolution to permit subject to legal agreement. Table 3.3 on page 16 of that report did not have figures which properly corresponded to the schedules at pages C1 and C2. The 888,000 tpa figure in that table may be accounted for by Rivenhall plus part of Basildon, but it is unsatisfactory to have to make such assumptions. It should also be noted that the arisings figures used are estimates based on figures derived from Urban Mines which in turn are derived not from East of England figures but a report from the North West.

6.30 In contrast, the applicants' assessment, which gave rise to the waste flow models at Document GF/4/B/4, considered sites in terms of what they are reasonably

capable of doing. For example transfer sites were assessed by their ability to sort materials and send such material direct to market. Moreover, EA data on actual throughputs was utilised.

6.31 Having regard to the guidance at paragraphs 13-15 of PPS10 in relation to plan reviews, the draft figures from EERA and ERM reports carry little or no weight. Moreover, as the standard of the 2009 report is not one which would normally be expected to be provided to a client, it should be given no weight in the consideration of the need case.

Conclusions on general need

6.32 The application site is plainly needed to meet the significant shortfall in Essex's current and future capacity to deal with waste. The proposal is on an allocated site in a preferred location, albeit with a larger footprint, which already has the benefit of an implementable permission for a similar scale and type of development.

The Paper Pulp Facility

6.33 The Pulp Facility (MDIP) is a further waste management facility. It would produce a product that directly replaces virgin fibre pulp in mills producing printing and writing paper (P&W). The applicants envisage concentrating on producing pulp for P&W rather than tissue. The MDIP would utilise the waste heat and steam from the CHP plant, reduce the use of virgin trees, avoid reliance on landfill, and associated methane production, and result in energy and CO₂ savings by virtue of the use of waste rather than virgin paper.

6.34 Around 13.15mtpa of waste paper, card and packaging is available for recovery in the UK. In 2008, 8.8m tonnes was collected or sorted for recycling, of which 4.18m tonnes (45%) was used in UK paper or board mills. The remainder was exported, principally to China (Document GF/24). Very little recovered medium and high grade papers are recycled for P&W because most goes to tissue mills, or is exported, and UK P&W production capacity utilising recovered paper is very low. More could become available if a ready supply of pulp were to be made available. In the UK, there are no pulp facilities comparable to that proposed and only two in Europe as a whole. There are a number of factors (e.g. procurement initiatives and social responsibility programmes) which would drive the market for P&W production utilising recovered paper.

6.35 The proposal would help to avoid sending paper waste overseas, and reduce reliance on virgin wood pulp from abroad.

6.36 With regard to the availability of feedstock, there is an ample supply within a wider area than the East of England. Moreover, there is no rational planning or sustainability/carbon reduction basis for confining 80% of the feedstock to the Region since there are as many locations within London, the South East and East Midland Regions which are as accessible to the application site as many parts of the East of England. Modelling of the carbon benefits of the eRCF was predicated on an average travel distance of 100km per kg of waste. Distance from source is a more logical basis for a planning condition than the boundaries of the Region. Notwithstanding this, no adverse consequences have been identified if the MDIP was not run at capacity.

6.37 There is a considerable resource of potentially available P&W feedstock in the East of England Region which could be targeted given national policy in WSE 2007 and commercial incentives. It is not expected that the facility would deal with waste primarily from outside the region. The following factors are noteworthy when considering feedstock:

- i. At present 180,000 tpa of feedstock is provided to the former M-Real plant in Sittingbourne which will cease to operate for high quality grade paper from P&W waste by 2011. That plant is proposed to go over to the production of packaging quality paper as indicated in Document GF/30.
- ii. The 2009 Urban Mines Report identified about 713,000 tpa of paper and card currently going into landfill in the East of England (Document CD/10/1 Page 78). Urban Mines noted that, along with other materials, this represents a potential resource for recycling, composting or energy recovery, should the requisite separation and treatment regimes and facilities be in place. Bearing in mind that about 36% of paper and card consumed in the UK is P&W (Document GF/24) it can be assumed that about 257,000 tpa P&W goes to landfill in the East of England. There is therefore potential for further recycling and recovery.
- iii. 1,879,174 tpa of paper and card is exported through the East of England out of Felixstowe and Tilbury (Document GF/4/B/20) of which 304,186 tpa is sorted. There seems no good reason why waste which is currently passing through the East of England should not be processed at the application site if competitive terms could be offered.

6.38 The eRCF would be able to receive and process P&W recovered in the East of England Region as its presence would provide collectors with a more financially attractive destination than alternatives further afield. Processing high grade paper in the UK is plainly preferable to shipping it abroad (where the majority is used for newsprint or packaging), or sending it to landfill in the UK. Seeking to recover the waste more sustainably is in accordance with the key initiative to increase paper recycling in WSE 2007 at pages 51 and 55.

6.39 Based on discussions with paper producers and suppliers, and the advice of specialists such as Metso and Pricewaterhouse Coopers (Document GF/4/D/1), it would be possible to produce pulp to an appropriate quality at a competitive price. Document GF/31 indicates that the applicants' potential partners are keen to set up a closed loop recycling process and thereby encourage the return of used paper to their customers. There should be little need to seek feedstock that is currently being delivered to tissue mills.

6.40 There is an overwhelming need for both the proposed MSW and/or C&I waste treatment capacity including the Pulp Facility. The assertion that the proposals are not commercially attractive is unfounded given the strong interest of the commercial market in both the RCF and the eRCF, and the need for the Pulp Facility, which is supported by the World Wildlife Fund (Document GF/4/D/5).

Viability issues and the paper pulp facility

6.41 Objectors submit that they have seen no evidence that the MDIP proposal is financially viable. However, the relevant figures are commercially confidential as the

applicants are currently in negotiations regarding the proposal. In general the planning regime does not require a developer to prove viability. Nevertheless, the information provided at Section 2 of Document GF/4/C and the documents referenced therein should enable the SoS to be satisfied that there is no issue with regard to the viability of the MDIP. The capital cost of the MDIP would be less than a stand alone facility because it would be part of a much larger scheme. Moreover, relatively cheap power would be available from the CHP, thereby enabling the MDIP to operate competitively. There is genuine commercial interest in the eRCF proposals from potential operator partners and key players in the waste industry, as evidenced by the letters produced at Document GF/4/D and GF/26.

6.42 The issue of viability has arisen primarily because of EEP Policy WM3. This acknowledges that specialist waste facilities such as the MDIP, may have a wider than regional input of waste. It indicates that 'Allowance should only be made for new non-landfill waste facilities dealing primarily with waste from outside the region where there is a clear benefit, such as the provision of specialist processing or treatment facilities which would not be viable without a wider catchment and which would enable recovery of more locally arising wastes.' Viability is only an issue if the facility is one "*dealing primarily with waste from outside the region*" it being accepted that there is a clear benefit from the specialist facilities which the MDIP would provide.

6.43 The site would not be dealing *primarily* with waste from outside the catchment (which must mean more than 50%), only a proportion. The restriction in Policy WM3 therefore does not apply, although the recognition of the role of the specialist facility remains relevant.

The relationship between planning and environmental permitting

6.44 The relationship between planning and permitting is clearly set out in PPS23 paragraph 10. Amongst other things this indicates that 'The planning system should focus on whether the development itself is an acceptable use of the land, and the impacts of those uses, rather than the control of processes or emissions themselves. Planning authorities should work on the assumption that the relevant pollution control regime will be properly applied and enforced. They should act to complement but not seek to duplicate it.'

6.45 The acceptability in principle of the proposal must be shown in land use planning terms. It is therefore appropriate to demonstrate that the impacts on the environment, human health and other related matters can be adequately controlled, managed and monitored by the EA, dealing with the technical issues of the process, and that any necessary mitigation and control of pollution can be undertaken through the EP process.

6.46 As noted already, the EA does not consider there to be an issue in principle with the acceptability of the proposed eRCF. The EA's e-mail of 5 October 2009 (Document GF/28) explains why an application for an EP is not practicable at the moment. There is no legal or even policy requirement for the EP to be submitted contemporaneously with the planning application and in a case such as the present where the process is protracted due to call-in and the need to enter into a contract with an operator, it is not surprising that the EP application has not been run in parallel with the planning application.

6.47 However, a significant amount of work has been carried out to assess the likely impacts of the proposals on matters such as air quality and the control of emissions, as can be seen from the component parts of the ES. The EA has been involved in discussions with the applicants throughout the design, modelling and application process. The recent EA letter (Document CD/15/7), to the extent that the EA has properly understood the changes and the Addendum, shows that some additional work would be needed for the EP, though it does not show any objection in principle to the proposals. The EA letter refers to the stack heights of 2 energy from waste (EfW) plants elsewhere. However, the buildings associated with those plants are substantially taller than the proposed eRCF building, and cannot be directly compared with the application proposal. The lower height of the eRCF building would result in a lower stack than would otherwise be necessary.

6.48 Notwithstanding this, the EA has sent a subsequent letter dated 22 October 2009 (CD/16/1), whereby it confirms that it does not object to the proposed eRCF. As a requirement of the Environmental Permit (EP), the applicants would be required to demonstrate that the eRCF would not have a significant impact on local air quality. This could be achieved by means other than increasing the stack height. In fact, dilute and disperse using a taller stack is one of the least preferred methods for controlling the impact of industrial emissions, with preference given to abatement and the reduction of emissions at source. The applicants would need to demonstrate that the predicted impact from the eRCF would not result in a significant increase in pollutant concentrations. Where necessary, additional controls could be used to reduce emissions. This is recognised in the latest letter from the EA which indicates that *'there may be other options available to the applicant to ensure that the best level of protection is afforded to the local environment, such as more stringent emission limits...'*.

6.49 The H1 document referred to by the EA in its letter of 13 October 2009 is a consultation document and the Environmental Assessment Levels (EALs) proposed in that document have not been formally accepted. Nevertheless, should these be formally adopted, the applicants would need to demonstrate to the EA that there would be no significant worsening of air quality with respect to these EALs. With regard to the EALs for some of the trace metals, it has already been demonstrated that assumed trace metal emissions from the CHP plant have been substantially overestimated. The CHP plant could operate at substantially more stringent emission limits, thereby providing an alternative option for reducing the impact of the plant on local air quality.

6.50 The detailed environmental assessment already undertaken has demonstrated that the impact on air quality would be acceptable. The assessment is based on the most reasonable worst case and demonstrates the appropriateness of a 35 m stack height (above existing ground levels) in terms of air quality, human health and landscape and visual impacts. After discussions with the EA (following their letter of 13 October 2009), the applicants remain confident that even if more stringent emissions limits were imposed through the permitting process, a 35 m stack height would be achievable by means of the Best Available Technique (BAT) at that time. Nevertheless, in the unlikely event that the height of the stack is required to increase by 5m (i.e. up to a height of 40 m above existing ground level), visual material has been presented to determine whether such an increase in stack height would be acceptable in landscape and visual impact terms. If planning permission were

granted, the Inspector, the SoS and the general public can be confident that the EA would ensure that any environmental risk would be adequately managed.

6.51 There is no reason to believe that the proposed technical mitigation measures could not be dealt with satisfactorily at the EP stage and thereafter monitored, enforced and reviewed where necessary by the body with the appropriate technical expertise to deal with such issues.

Issue 1: The Development Plan

6.52 Whilst the application falls to be determined in accordance with the Development Plan (DP), unless material considerations indicate otherwise, a breach of one or even several policies does not mean that the proposal considered as a whole is not in accordance with the DP. Moreover, the materiality of the fallback position may render any such breaches of little consequence since they are likely to occur in any event.

6.53 The statutory development plan includes the EEP, WLP and BDLPR. Only the EEP is up-to-date. Key portions of the WLP are not consistent with PPS10. For example, policies in the WLP rely on BPEO, whereas the Companion Guide to PPS10 (document CD/6/6/A) makes it clear at paragraph 8.26 that there is no policy expectation for the application of BPEO, and that requirements should not be placed on applicants that are inconsistent with PPS10. Furthermore, it is not the role of a development control planning inquiry to revisit the figures in the RSS for waste and regional waste apportionments, other than in accordance with the advice at paragraphs 13 to 15 of PPS10. To do otherwise would destroy the certainty which PPS10 requires, and undermine the statutory role of the RSS.

6.54 The need for the proposal has been demonstrated above. In the light of that need, the eRCF would enable delivery of the waste management objectives in EEP Policy WM1 and achievement of the recovery targets in EEP Policy WM2. It would make a major contribution to the meeting of the Landfill Allowance Trading Scheme (LATS) targets and would deliver a solution consistent with the JMWMS. It would minimise the environmental impact of waste management; manage waste as a resource; and help to secure community support and participation in promoting responsible waste behaviour. It would secure the wider environmental and economic benefits of sustainable waste management and assist almost immediately in the meeting of the Government's targets for reducing greenhouse gas emissions.

6.55 The MDIP proposal is consistent with EEP Policy WM3. It would enable the recovery of locally arising wastes together with higher grade waste paper attracted from outside the region because of the absence of similar facilities in the UK.

6.56 The eRCF would assist ECC in managing its apportionment, set out in EEP Policy WM4, in a manner which would be in accord with EEP Policy WM5. The eRCF proposal accords with the objectives of EEP Policy WM5 insofar as it would be developed at the preferred location WM1 identified in Schedule 1 of the WLP. The needs tests in WLP Policies W3C and W8A would also be met.

6.57 Objectors to the eRCF contend that the site does not comply with the DP for two principal reasons. Firstly, the application site extends considerably beyond Preferred Location WM1 and, secondly, the proposal would introduce an industrial

process onto a site part designated for waste management facilities contrary to BDLPR Policies 27 & 78. Other potential conflicts relate to assessments of the impact of the proposals and the mitigation measures, which are dealt with under specific subject headings, below.

WLP Allocation WM1 and the size of the site

6.58 The WLP and the BDLPR, unlike the EEP, are not in all respects up-to-date and do not reflect PPS10. There is reliance on BPEO which was removed from national policy and replaced by the requirements of PPS10. The RCF permission is an indicator that the eRCF should be accepted in planning terms and forms a robust fallback position. The WLP is 9 years old and based on data which is even older. The site allocations were formulated no doubt in the light of a different policy landscape for waste and different figures regarding arisings which had to be dealt with within the plan area.

6.59 The views of the EERA Regional Secretariat on the RCF are set out in a report to the regional planning panel sub committee dated 19 January 2007 (Document CD/3/2). This comments on the difference in scale between the RCF and the allocation in WM1, and states that the difference in the size of the site compared with the allocation is acceptable in strategic terms. Given the scale of the existing need and the benefits of providing the integrated eRCF, the difference in the size of the site required for the eRCF compared with the allocation is equally justified.

Whether the MDIP is a Waste Treatment or Industrial Facility

6.60 The question of whether the MDIP should be classed as an "industrial" facility is a red herring. The focus of BDLPR Policy RLP 27 is on the strategic location of employment generators and traffic, and not whether a use is characterised as "business", "commercial" or "industrial". The BDLPR does not regulate waste development and, in the light of WLP WM1, waste development on the application site would not be a breach of the DP. The eRCF is a waste facility and therefore is not in breach of RLP27. Moreover, the RCF is as much an employment generator and generator of traffic and there is little difference between it and the eRCF.

6.61 The MDIP would be a waste management facility integrated with other such facilities. Its presence would make no difference to the size of the application site, and its claimed non-compliance with Policies RLP27 & RLP78 is, on that basis, irrelevant. Co-location of waste management facilities and other industrial processes accords with PPS10 and EEP Policy WM1 and secures major benefits, including savings in energy consumption and reduction in CO₂ emissions.

6.62 In terms of the WSE 2007 (Document CD/8/1) the recycling of paper waste is as much a priority as other forms of waste management which recycle and recover waste in accordance with national and EU policy. WSE 2007 is more than simply guidance. As it notes on page 6, the waste strategy and its Annexes, together with PPS10, is part of the implementation for England of the requirements within the Framework Directive on Waste, and associated Directives, to produce waste management plans. These are the national level documents of a tiered system of waste planning in England, which together satisfy the requirements of the various Directives.

6.63 Page 13 of the WSE 2007 indicates that key waste materials have been identified where diversion from landfill could realise significant further environmental benefits. It indicates that the Government is taking action on various materials including paper, and that it is establishing with the paper industry an agreement with challenging targets to reduce paper waste and increase paper recycling. At pages 52-53, paper and card are identified as being among the priority waste materials which offer the greatest potential for reduction in greenhouse gases from increased recycling and recovery.

6.64 A district local plan does not deal with waste management facilities. Notwithstanding this, the concerns of the LCG with regard to the MDIP in relation to BDLPR Policies 27 and 78 should apply equally to the treatment of other waste materials at the eRCF, including the production of SRF through the MBT and composting through the AD. All of these processes treat waste materials and end with a recovered product. Under EU waste legislation and policy, waste remains waste until it is recovered (i.e. converted by the recovery process into some beneficial product). Accordingly, while the pulp resulting from the process would be a saleable product, until it has gone through the treatment process and been recovered, it remains waste and the processing through the MDIP is a waste management process.

6.65 The character and use of the proposals as a whole, including paper treatment, is that of a waste management facility. This is wholly consistent with the RSS Policy WM5 and WSE 2007. Permission is not sought for any general industrial facility. A similar sized waste facility, albeit without the MDIP, has been permitted in the form of the RCF. Policy RLP27 is concerned with employment and traffic, and this will arise in any event through the RCF. ECC accepts it is questionable whether the proposals represent a departure from the DP in relation to Policy RLP27, and it was only treated as such by ECC on a precautionary basis.

6.66 With regard to the claimed breaches of policy relating to agricultural land, countryside policies and the like it is relevant to note that PPS7 and PPS10 have to be read together in the light of sustainable waste management strategy. Moreover, the BDLPR does not consider waste management issues and, notwithstanding this, the RCF has very similar impacts. National policies, such as those in PPS7, also require regard to be paid to weighty issues such as sustainable waste development and the need to address climate change. These matters are addressed by the application.

Highways and transportation

6.67 It is reasonable to anticipate that the eRCF would generate no more than 404 daily HGV movements, particularly as there is potential for lorries that deliver material to the site to be used for carrying material from the site (i.e there is potential for back hauling). The operator would have control over deliveries and the despatch of material to and from the proposed plant, and there is no reason to believe it, or the hauliers themselves, would wish to operate on the basis of sub-optimal loads. Data from the inputs for the EA's 'WRATE' Life Cycle Assessment Model are an unsatisfactory substitute for the knowledge of experienced waste hauliers, which was used by the applicants.

6.68 Notwithstanding this, there has been no suggestion that any specified number of HGV movements greater than 404 would have materially different or more serious implications in highways and transportation terms. The dispute about HGV numbers primarily relates to concerns about the capacity of the proposed MDIP.

6.69 Braintree District Council resolved, despite the Highways Agency's position and without the benefit of advice from a highway engineer that it would object to the eRCF on the sole basis, in this context, of the impact of resulting HGV flows on the capacity and safe operation of the A120. However, transport planning policy indicates that facilities such as the eRCF should have good access to roads high up the roads hierarchy, and Trunk Roads should therefore be expected to accept increased traffic flows associated with it. The Highways Agency's decision not to object to the eRCF was founded on current guidance (see Document GF/10/F).

6.70 The application site is the only one of the preferred waste sites listed in the WLP to have the benefit of direct access onto the Trunk Road network. It is accepted that the A120 Trunk Road is busy and some sections operate in excess of their economic design capacity and have reached their practical capacity. However, this occurs at peak times and the road should not be regarded as unable to accommodate additional traffic. Traffic to the eRCF would avoid peak hours where practicable. Most of the traffic attracted to the eRCF would not coincide with the peak hour periods on the A120. Notwithstanding this, the catchment area for the waste arisings suggests that an alternative elsewhere would attract increased traffic flows on the A120 in any event.

6.71 The junction of the extended Bradwell Quarry site access road, which would be used to access the site, and the A120 would operate satisfactorily in the relevant design year (2018). Subject to the imposition of the proposed restriction to 404 HGV movements daily, there would be no material difference between the RCF and eRCF in terms of impacts on the capacity and safe operation of the A120.

6.72 The junctions of the access road with Church Road and Ash Lane will be improved. Both crossings have a good safety record, and the proposed improvements have the potential to further improve their performance.

6.73 Visibility on the Church Road south approach has been identified as the most critical sight line. It is agreed that the standards set out in Manual for Streets is applicable as this is a lightly-trafficked rural road. This document requires a minimum 60m 'y distance', which is achievable. No substantial issue remains in respect of these minor road crossings.

6.74 Objectors have also expressed concern about the possibility of HGVs diverting onto local roads and travelling through local villages. However, as indicated above, HGV deliveries and despatches to and from the site would be under the control of the plant operator and the proposed HGV routing agreement, which would be effective from the opening of the plant, would ensure that rat-running would not occur under normal circumstances.

6.75 In conclusion, it has been shown that the proposal accords with relevant development plan policy in the EEP (Policy T6), the WLP (Policies W4C, W10E & W10G) and the BDLPR (Policies RLP 49, 50, 52, 53, 55 & 75), bearing in mind, so far as the BDLPR is concerned, that the proposed development has specific

characteristics and locational requirements which should be taken into account when assessing compliance with these policies. There is no material difference between the RCF and eRCF in highways and transportation terms.

Landscape and Visual impact

6.76 The landscape character of the application site and its surroundings is derived from its use as a World War II airfield and an existing large quarry. The heritage significance of the airfield is assessed at Document GF/32. Although it is of some local historical significance, much of the airfield and its military buildings have disappeared and consequently it is not considered to be a particularly good surviving example of a World War II military airfield. The quality of the landscape is ordinary; its character as Essex plateau farmland has been degraded, and its sensitivity to change reduced. As the site lies on a high open plateau the perceived visual envelope of the development would extend over a considerable distance. However, there are relatively few residential properties within this envelope. The site does not lie in a designated or nationally protected landscape area, though the existing site access road passes through the Upper Blackwater Special Landscape Area which is subject to the protection afforded by BDLPR Policy RLP79. Isolated woodland blocks assist the application site's visual containment and all trees on site are protected.

6.77 The proposed facility would have few sensitive visual receptors. There are no residential properties in close proximity to the proposal and of the footpaths within the development's visual envelope, only FP8 passes in close proximity to the proposed eRCF building. The principal means of minimising the visual impact of the proposed buildings and integrating them into the landscape would be as follows:

- (i) their construction would be largely below existing ground level;
- (ii) the facility would be no higher than the existing hangar with the building design reminiscent of it;
- (iii) cladding materials would be dark and recessive;
- (iv) the substrate of the green roof would be colonised with mosses and stone crops;
- (v) the retained woodland would be managed to improve its diversity and screening quality, and new woodlands would be created; and,
- (vi) new hedging would be planted along the northern site boundary and sections of the proposed access road.

6.78 Only one property (Deeks Cottage) would experience moderate adverse visual impacts as a result of the proposed facility during construction and the early years of the facility's operation. Over the same period, only 4 other individual properties (The Lodge at Allshot's Farm, Haywards, Heron's Farm and Sheepcotes Farm) and a limited number of properties on the eastern edge of Silver End would experience minor adverse visual impacts. Users of footpath 35/68 to the north of the site would experience moderate adverse visual impact at Year 1 of operation, with other paths in the area assessed as minor adverse impact. These impacts would generally arise as a result of the new building projecting above the confines of the existing woodland screen. The proposed new hedging and woodland would take time to mature, but within 15 years they would adequately screen the proposed facility (other than the upper section of the stack) from nearby visual receptors.

6.79 Objectors have expressed concern about the possibility of dewatering of the existing woodland that would be retained adjacent to the excavation which would accommodate the eRCF. However, clay is the dominant material in the soils beneath the woodland blocks. The woodland growth is separated from the underlying sand and gravel by over 6m depth of boulder clay. The woodland trees are not dependent upon the groundwater locked in any aquifer below ground, but are reliant upon moisture held within the subsoil and top soil that overlies the boulder clay. Any dewatering related effects that occurred in the sand and gravels would not have an impact upon the woodland trees.

6.80 Notwithstanding this, it cannot be entirely discounted that the proximity of the proposed retaining wall to the trees would not have some impact on the water regime which is critical to the trees, particularly during construction. As a precautionary measure, selective coppicing would be undertaken to reduce the water demand of the trees closest to the wall. This would reduce transpiration and make the coppiced trees better adapted to any potential reduction in water supply. Such management would in any case be complementary to the management likely to be prescribed for increasing biodiversity in the woodland habitat, delivered in accordance with the Ecological Management Plan.

6.81 The development of the CHP capacity necessarily involves the provision of a chimney stack. It is acknowledged that this would be a noticeable addition to the landscape, and would be visible over a wide area given the Site's location on a high, flat plateau. However, it would be seen only as a small element of the overall view, although it is accepted that users of FP8 in particular would be conscious of the presence of the stack and associated plant. The impact of the proposed stack would be mitigated by:

- (i) the quality of the landscape in which it would be sited and its reduced sensitivity to change;
- (ii) the lowering of the stack into the ground resulting in height of only 35m above ground level;
- (iii) the cladding of its upper part in stainless steel with a reflective finish to mirror surrounding light and weather conditions, which would help to minimise the perceived scale of the stack and its visual impact;
- (iv) the presence of existing and proposed additional woodland to the south - it would protrude about 20m above the average height of the retained existing trees;
- (v) its remoteness from sensitive receptors; and,
- (vi) the absence of a visible plume.

6.82 Because the eRCF would be located in a light sensitive area, detailed consideration has been paid to minimising the risk of light pollution. Measures that would be taken include the installation of external lighting below surrounding ground level, the direction of light being downwards, and the avoidance of floodlighting during night time operations. Timers and movement sensitive lights would be fitted to the exterior of buildings to provide a safe working environment when required. The plant would only operate internally at night.

6.83 The proposed extension to the existing access road would be constructed in cutting and would run across the base of the restored quarry, therefore lights from vehicles travelling to and from the eRCF within this section would be screened from

view. An independent review of the lighting proposals (Document GF/2/D/2) puts forward a number of recommendations to further minimise the impact of external lighting and concludes that with the incorporation of these amendments the impact of the eRCF on the night sky would be minimal. The Technical Note on Lighting (Document CD/17/1), prepared in response to the objectors representations at Document CD/16/4 indicates that the final lighting design would conform to the requirements of any planning conditions. However, it is intended that:

- luminaires located around the eRCF buildings would be fixed at a maximum height of 8m above the finished surface level of the site;
- there would be no upward light from use of the proposed flat glass luminaires mounted at 0° tilt;
- the weighbridge would be illuminated;
- the lighting installation would be fully compliant with the requirements of the proposed 18.30 to 07.00 curfew;
- there would be no need to provide illumination of the 'high level access road' as maintenance and repairs in and around this area would be provided during normal daytime working hours; and,
- internal lights would either be switched off or screened by window coverings during night time operations.

6.84 The final design of the lighting scheme would incorporate these amendments, subject to conformity with the requirements of planning conditions.

6.85 In conclusion on the overall subject of the impact on the landscape, it is accepted that visual harm is inescapable in the context of the provision of a major waste management facility. However, the issue is one of degree. The degree of harm that would result in this instance is remarkably limited. The low levels of visual impact arising from such a large-scale proposal confirm that this site is ideally suited to the proposed use. It is concluded that the eRCF proposal accords with relevant policies in EEP (Policies ENV2 & ENV5), WLP (Policies W10B, Q10E & W10G) and BDLPR (Policies RLP 36, 65, 78, 79, 80, 81, 86, 87 & 90).

6.86 A postscript arises in the context of landscape and visual impact. Should it be necessary for the stack to rise 40m above ground level, the additional 5m would be imperceptible and have no impact on the appraisal of landscape and visual impact in the ES. The SoS is invited to confirm that he would not regard the addition of 5m to the stack as itself unacceptable.

Ecology

6.87 The baseline surveys revealed a number of species of nature conservation value and habitats of interest on the site, including semi-improved neutral grass land, semi-natural broadleaved woodland, the River Blackwater, ponds inhabited by great crested newts, and a variety of bird species and bats. Development of the eRCF would result in the removal of some of these habitats and disturbance to associated flora and fauna, but significant areas of habitat would remain. Significant mitigation, compensation and enhancement measures are proposed to address the effects of the eRCF.

6.88 The applicants are committed to a range of ecological enhancements that go beyond compensation. These measures include:

- 3.4ha of proposed new woodland;

- 2km of hedgerow planting linking to semi-natural habitats off-site;
- the creation or enhancement of about 7.8ha of open habitat to be managed for nature conservation (2.8ha species-rich neutral grassland and about 5ha of open habitat incorporated into the green roofs); and,
- ponds managed for great crested newts and buildings refurbished to provide specific roosting opportunities for bats.

6.89 The positive management of existing habitats for nature conservation would provide immediate benefits and, as newly-created habitats become established and available for management, the scope exists to contribute significantly towards biodiversity targets set in the EEP. The Ecology Summary Table at Document GF/8/B/1 shows a positive residual impact for three of the key habitat features at the Site, namely woodland, scrub and hedgerow network; open habitats; and ponds, which would support great crested newts. Disturbance to legally-protected species would be minimised or avoided.

6.90 NO_x concentrations as a result of emissions from the eRCF would be very small and the impact on vegetation would be negligible. Predicted concentrations as shown in Document GF/6/D are less than 2% of the critical level for the protection of vegetation.

6.91 The proposed additional woodland planting would take several years to mature; but it is nonetheless apparent that the introduction of active management would result in immediate biodiversity benefits. Cumulatively, the eRCF would result in a positive residual impact, as reflected in the Ecology Summary Table at Document GF/8/B/1. In terms of development plan policy, the eRCF accords with EEP Policy ENV3 and WLP Policy W10E, and accords or does not conflict with BDLPR Policies RLP 78, 80, 81, 82, 83 & 84. There are additional positive benefits to biodiversity as a result of the eRCF compared with the RCF.

Issue 2: Design

6.92 The approach to the design of the eRCF is described in the Planning Application Supporting Statement (PASS) and the Design and Access Statement. A site appraisal was undertaken at the outset, in accordance with BDLPR Policies RLP 90 & 91. It confirmed that the proposed design should reflect and enhance the local distinctiveness of this location in accordance with PPS1, 7 & 10. The design reflects that of the World War II hangars. Dark coloured cladding materials are proposed because they are recessive in the landscape and the building would be viewed against a dark backdrop of existing woodland. Construction of the roof as a green roof would further reduce the building's visual impact.

6.93 Another key concern driving the design has been the minimisation of the extent of visual intrusion. The sinking of the main building into the ground, retaining and supplementing peripheral trees and planting, and the use of a long, low, continuous profile have been employed as means to this end.

6.94 The design principles, location, layout, scale, dimensions and exterior design of the eRCF are essentially the same as the RCF, with a deliberate intention to minimise the changes between them, other than to enhance the project. CABE commented in a consultation response dated 25 October 2006, albeit in relation to the RCF, that the location was suitable for a waste management facility and that the proposed architectural treatment and sinking of the building and approach road into the ground

raised no concerns (Document GF/2/B/1). CABE was consulted specifically on the eRCF but did not respond, which suggests that CABE has no objection to the latest proposals.

6.95 A comparison of the RCF and the eRCF shows that the only significant change is the addition of the CHP stack. The objectors' focus on this feature supports this conclusion.

6.96 The design aspects of the proposal are appropriate for the location and provide reasonable mitigation for the visual impact which any waste facility of this kind is bound to have. Accordingly the proposals comply with design guidance in PPS1, and the principles set out in 'Designing Waste Facilities' (DWF) (Document CD/8/9), albeit that they inevitably pre-date that document. In particular, the eRCF embraces the design attributes of: functionality in use; build quality; efficiency and sustainability; designing in context; and aesthetic quality. Whilst each waste management process within the eRCF would benefit from its integration with others, there is sufficient capacity in each of the key processes to allow for variation thereby providing flexibility of use. Document GF/38 describes the flexibility of capacity which is inherent in each of the processes. The design of the MRF allows for upgrades in the eRCF's process which would meet potential changes in the type and composition of waste imported to the site. The MBT would have five autonomous process lines. In relation to the MDIP, minor modifications could be made to allow tissue paper pulp to be produced and opportunities exist to introduce a secondary treatment of the sludge arising from the de-inking process to recover a valuable secondary aggregate suitable for re-use within the aggregates market.

Design for climate change

6.97 The Climate Change Supplement to PPS1 requires proposals to make a full and appropriate contribution to climate change. Reducing carbon emissions forms part of Defra's waste strategy (CD/8/1) and part of ECC's JMWMS (Document CD/8/2)

6.98 Detailed computer modelling to assess the overall carbon balance, or global warming potential of the proposal, expressed in kg of CO₂ equivalents has been undertaken using the EA's WRATE Life Cycle Assessment Model. In order to compare results, 3 scenarios have been modelled, namely the baseline case (without either the eRCF or the RCF); inclusion of the RCF; and inclusion of the eRCF. The assessment indicates that the eRCF proposals would result in a significant reduction in emissions of CO₂. Following discussions with an expert on WRATE from ERM, the carbon benefits of the proposals are agreed and set out in Document GF/27. This indicates that the total savings of CO₂ by 2020 would be in excess of 70,000 tpa. This compares favourably with the 37,000 tpa savings from the RCF and even more favourably with the baseline scenario. The baseline scenario is identified as saving 4,117 tpa of CO₂ in 2020 partly on the basis of active waste recycling programmes already in place in Essex. However, the baseline savings are only 6% of the savings which the eRCF would produce. The eRCF scenario has a considerably greater environmental performance than the other scenarios modelled.

6.99 It has been suggested that decoupling the CHP, the MDIP and the RCF would have advantages. However, this fails to recognise that the eRCF power supply to run the entire plant is self generated at a lower carbon emission rate than electricity drawn from the National Grid. Decoupling the CHP from the rest of the scheme

would require 25MW of electricity from the National Grid, (with a higher carbon footprint), to power the waste management processes. Moreover the heat output from the CHP would be substantial.

6.100 The UK Renewable Energy Strategy (Document CD/8/4) sets out the Government's target to produce 15% of our energy from renewables by 2020 and identifies the planning system as central to its achievement. PPS22 makes clear that energy from waste is considered a source of renewable energy provided it is not the mass burn incineration of domestic waste. Document GF/37 addresses the concern of FOE that the recovery of energy through the CHP may not meet the formula for R1 recovery operations set out in Annex II of Waste Directive 2008/98/EC (Document CD/4/2), which does not come into force until late 2010. An R1 recovery operation is where the waste is used principally as a fuel or other means to generate energy. The R1 category includes incineration facilities dedicated to the processing of MSW which have an energy efficiency equal to or above a figure of 0.65 for installations permitted after 31 December 2008. The energy efficiency figure is calculated from a formula set out in the Appendix to the Directive. The formula gives a figure of 0.7732 for the CHP to be provided at the eRCF, which easily meets the requirement for classification as recovery.

6.101 The use of SRF in the proposed CHP plant, whether from the Basildon proposals or the application site itself, and the export of electricity to the National Grid would therefore contribute to meeting the Government's target. This contribution is increased significantly by the proposed co-location of the MDIP and its proposed consumption of heat from the CHP plant. Granting planning permission for the eRCF is therefore in accordance with PPS22 and the UK Renewable Energy Strategy, as well as the WSE 2007.

Issue 3: Whether the proposal is consistent with the advice in PPS7

6.102 Amongst other things, the eRCF proposal involves the loss of 1.77ha of woodland and its replacement with 3.4ha of new woodland planting, including 1.2ha outside the application site. The design seeks to minimise visual impact and reinforce local distinctiveness, and to ensure that changes from RCF (in particular, the CHP stack) do not result in material visual harm. The eRCF proposal accords with the requirements of PPS7 to protect or enhance the character of the countryside.

6.103 The objective of siting development at a location where it can be accessed in a sustainable manner, and in particular by alternative modes of transport, should be addressed pragmatically. The proposed eRCF is not, by its nature, a development which would normally be expected in or on the edge of a town or other service centre. Moreover, there is an allocation for waste management development at this location. The key issue concerns HGV movements, rather than trips by employees or members of the public.

6.104 The impact of the proposal on the best and most versatile agricultural land must be balanced against other sustainability considerations. Soils stripped from agricultural areas would be re-used sustainably. Whilst the eRCF would result in the loss of almost 12ha of Grade 3a agricultural land, there would be a similar loss if the RCF were constructed. This loss of Grade 3a agricultural land represents 0.3% of the Bradwell Hall Estate holding. The permanent severance resulting from the extended access road would also occur in the RCF scheme. Woodhouse Farm is unoccupied,

and could not form a 'commercial unit of agriculture' under the present agricultural cropping regime.

Issue 4: PPS10

6.105 The eRCF is consistent with the key planning objectives set out in PPS10. It would help to deliver sustainable development by driving waste management up the waste hierarchy and addressing waste as a resource. It would reduce the need for disposal by landfill and would recycle waste into marketable products. Moreover, it would have benefits in terms of climate change. It would also contribute towards ensuring the timely provision of sufficient waste management facilities to meet the needs of the community and assist in the implementation of ECC's strategy to provide a framework within which the community takes more responsibility for its own waste. The eRCF would contribute to the implementation of the national waste strategy.

6.106 A number of misconceptions have been presented in the objections to the proposal. These should be rejected. It is suggested that PPS10 can be substituted in the WLP policies for BPEO. This is incorrect. If specific plan policies are out of date, then those policies (e.g. W7G) should be given little weight and the policies in PPS10 should be applied.

6.107 The concept of community engagement and self-sufficiency does not require that facilities should be directed solely to the local community, or even the district. In many cases, waste management needs to be carried out on a county wide basis. The eRCF would allow Essex to increase its provision of sustainable waste management and provide greater means to secure increases in recycling and recovery and reduce carbon emissions. It is true, as the FOE points out, that a continued increase on minimisation, recycling and composting will improve the UK's position in climate change terms and in the reuse of beneficial material, but the eRCF proposals are part of the means by which improvements in sustainable waste management could be realistically achieved. Development control inquiries are not the means to achieve policy change, as the FOE appears to think.

6.108 Moreover, although the community should be engaged by the process, and their concerns taken into account, it does not mean that there must be unanimous community support. As in the present case, concerns of the community have been met so far as possible in terms of mitigation measures. The community's needs for waste management would in part be addressed by the eRCF.

6.109 The S106 provisions would create a process for community liaison with regard to the operation of the eRCF. The applicants have agreed to supply emissions monitoring information through the liaison committee.

Air Quality

6.110 Objectors have incorrectly claimed that air quality impacts would not be assessed until the EP application is made. There has been a considerable degree of technical assessment of the air quality and health impacts of the proposal.

6.111 PPS 10 indicates that modern, appropriately-located, well-run and well-regulated, waste management facilities operated in line with current pollution control techniques and standards should pose little risk to human health. Insofar as PPS10

advises that planning authorities should draw from Government Advice and research, the Health Protections Agency's recent publication of "*The Impact on Health of Emissions to Air from Municipal Waste Incinerators*" (September 2009) provides further reassurance (Document GF/9/D). That document indicates that "Modern, well managed incinerators make only a small contribution to local concentrations of air pollutants. It is possible that such small additions could have an impact on health but such effects, if they exist, are likely to be small and not detectable." The human health modelling presented in Chapter 3 of the Addendum ES (Document GF/12) confirms that the risks to human health from the proposed eRCF are negligible since the predicted daily exposure for all contaminants of potential concern is less than the relevant toxicological benchmark.

6.112 A comprehensive assessment of emissions to air from the proposed eRCF has been undertaken and described in Documents GF/6, Chapter 11 of the ES and the Regulation 19 Submission. Dispersion modelling has been used to predict airborne ground level concentrations. With a stack height of 35m, the predicted pollutant concentrations would be substantially below the relevant air quality objectives and limit values, except for arsenic. However, the assumed emissions of arsenic were substantially overestimated. In the model analysis, metal emissions were specified in three groups. Group 3 consisted of nine metals, one of which was arsenic. It was assumed for the purposes of the model that each individual metal would be emitted at the emission limit for the group as a whole. This was an extreme worst case assumption, and clearly implausible, as it could result in an emission nine times the emission limit for the Group 3 metals. Using this overestimate, in conjunction with a particularly stringent air quality limit value for arsenic due to be implemented in 2012, resulted in an exceedance of the annual mean limit. However, given the unrealistic overestimate of arsenic emissions, it would be more appropriate to specifically limit the emissions of arsenic, as opposed to increasing the height of the stack which would have limited benefit. Realistic estimates of arsenic emissions based on sampling and analysis of emissions from waste incinerators elsewhere show that arsenic levels would be significantly lower than that assumed in the dispersion modelling assessment.

6.113 Examples of contour plots using a single multi flue stack for various potential pollutants can be found at Document GF/6/B/13 and GF34. The impact of stack emissions from the eRCF would be controlled by the monitoring of stack emissions. This is a requirement of the Waste Incineration Directive (WID). The WID requires continuous monitoring of some emissions such as NO_x, CO, particles, volatile organic compounds, HCl, HF and SO₂. For others which cannot be monitored continuously, periodic monitoring on a twice yearly basis is required. Compared to monitoring at specific receptors, this has the advantage of providing emissions data for a wide area rather than at a few specific locations and ensures that emissions and modelling data relates to the emissions from the plant. It therefore provides a greater degree of certainty about the impact of the plant.

6.114 In the case of the eRCF, the critical stack height for a single stack option is about 25m in terms of the dispersal of emissions. Above 25m, the law of diminishing returns applies. Stack heights depend on a range of many different factors and there is no indicative stack height for facilities in general. The height of a building is often critical in determining the necessary height of an associated stack. A stack height of 35m is adequate to meet air quality standards and should satisfy the EA's requirements.

6.115 No visible plumes are predicted to be emitted from the stack. The plume visibility assessment assumed a moisture content of about 7% for emissions from the gas engine and CHP plant multi flue stack. Information on plume visibility is provided in the ES Addendum at Chapter 2, Appendix2-1 Section 8 (Document GF/12).

6.116 With regard to traffic emissions, the proposed 404 additional HGV movements are the same as that proposed for the RCF. Based on the current Design Manual for Roads and Bridges (DMRB) screening criteria, a detailed air quality assessment is required if there is a change in vehicle movements above a set threshold and there are sensitive receptors within 200m of the road. This is not the case for the eRCF. Nevertheless, in response to concerns about possible changes in the split of traffic on the A120, an assessment of the air quality impacts due to traffic was undertaken using the DMRB methodology (Document GF/34). This demonstrates that there are no air quality concerns with a revised traffic split of 63%/37% in terms of direction travelled. Even with an extreme assumption that all of the development traffic accessed the site from an easterly or westerly direction, predicted traffic related pollutant ground level concentrations would be very small, and it can be concluded that development traffic would not have a significant impact on air quality.

6.117 With regard to the FOE's concerns regarding PM_{2.5} emissions, even if it were assumed that all particles emitted from the eRCF were comprised of the fine fraction (PM_{2.5}) the predicted maximum concentration of such material would be 0.14 µgms/m³ which is significantly less than the target value of 25µgms/m³. The predicted maximum concentrations of such material anywhere within the model domain are well below the target value and are effectively negligible (Document GF/6/D).

6.118 The deposition of pollutants to ground has been calculated to support the Human Health Risk Assessment (HHRA), which can be found in the Addendum ES (Document GF/12). That assessment indicates that the risks to human health are negligible since the predicted daily exposure for all contaminants of potential concern is less than the toxicological benchmark. SWFOE questioned the exclusion of certain pathways from the HHRA. Document GF/9/E indicates that additional modelling was undertaken to include the ingestion of homegrown pork, beef, and milk from homegrown cows. Again, the analysis demonstrated that the risks to human health would be negligible as the predicted daily exposure for all contaminants would be less than the relevant toxicological benchmark.

Noise, vibration, dust and odour

6.119 All waste recovery, recycling and treatment operations would be conducted within environmentally controlled buildings, sited below surrounding ground level. The buildings would be insulated with acoustic cladding to reduce noise. Vehicles would enter and leave the building through high speed action roller shutter doors. The buildings would be operated under negative pressure. The continuous 24 hour operation of the plant would ensure that the holding and storage times of unprocessed waste would be minimised. Bioaerosols and odours would be controlled contained, and managed, as would noise and dust.

6.120 No technical or other evidence has been provided which undermines the assessment of noise and vibration impacts, and the mitigation measures proposed for construction and operational noise, as set out in the ES at Chapter 12, the Addendum ES at Document GF/12, and the Written Representations in respect of Noise Impact Assessment by Daniel Atkinson at Document GF/2/D/1. The reception of waste would be limited to the operating hours of 07.00 to 18.30 on weekdays, and 07.00 to 13:00 on Saturdays, excluding Sundays and Bank Holidays. Processing would take place on a 24 hour, 7 days per week basis, but would be undertaken inside environmentally controlled buildings, partly constructed below surrounding ground level and 1.1km from the nearest settlement.

6.121 The summary in Document GF/2/D/1 indicates that there would be no significant impact from construction noise at neighbouring residential receptors. The three suggested methods of assessment given in BS 5228:2009 Part1: Noise, have been used to assess the impact of constructional noise. These all show that there would be no significant impact from construction noise at neighbouring residential receptors. The predicted construction noise level falls within the range 44 dB(A) to 52 dB(A), and thereby considerably below the threshold of 65db(A) set out for daytime noise construction in the code of practice with regard to the 5 dB(A) change method. Moreover, the assessment of construction noise has been undertaken on a worst case scenario. As the construction would involve excavations, it is highly likely that the change in landform would result in considerably greater attenuation of noise levels at receptors than those predicted. The concerns regarding vehicle reversing alarms and the sounding of vehicle horns could be adequately addressed by management controls, including for example broadband reversing alarms where the perceived impact of tonal reversing alarms does not arise.

6.122 With regard to operational noise, the summary indicates that noise levels would be very low both day and night. The assessment of the operational noise level at all receptor locations for both day and night time periods shows that noise levels of operations would be below the level of 'marginal significance' according to British Standard 4142. The physical noise levels predicted for daytime operations fall within the range of 22 to 34 dB(A), and for night time periods 22 to 30 dB(A). The subjective perception of noise levels in the range 25 to 35 dB(A) may be described as being the equivalent to a quiet bedroom or a still night in the countryside away from traffic. Such levels of noise would not have a material impact on the amenity of local residents.

6.123 With regard to the tranquillity mapping described by the CPRE, the site of the IWMF appears to be near the middle of the scale, suggesting that it is neither tranquil nor not tranquil (Document GF/35). The noise assessment has demonstrated that the current levels of peace and quiet would be maintained and proposals for lighting the new building would minimise light pollution into the night sky.

6.124 The change in noise levels attributable to increased road traffic flows resulting from the eRCF would be imperceptible, being considerably lower than 1 dB(A).

Issues 5 & 6: Conditions and Planning Obligations

6.125 The main contentious issue is the proposed condition requiring 80% of the feedstock for the MDIP to be sourced from the East of England region. It is disputed that this is either necessary or appropriate in terms of planning, policy or climate

change objectives. The MDIP would be the only one of its kind in the UK once Sittingbourne closes in 2011, and, regardless of the policy position in adjoining regions, it is undisputed that no other such facility will be available in the UK.

6.126 The MDIP could help to reduce the export of high grade waste paper; reduce the use of such waste paper for less sustainable paper products, and help avoid the greater use of virgin paper pulp. There is no sustainability or carbon emissions basis for suggesting that waste exports or pulp imports should be preferred to using the MDIP at the Site. In terms of climate change, it is agreed that the MDIP proposals would provide substantial CO₂ savings, based on an average 100km travel distance for the sourcing of waste paper rather than the sourcing area being restricted to the East of England Region. There are a large number of potential locations from which to source waste paper outside the East of England region which are comparable in distance from the application site as many of the settlements within the region. For example, within the East of England approximate distances are Bedford 103km; Norwich 118 km; Peterborough 138 km; Kings Lynn 150km; Hunstanton 171 km. To locations outside the region, approximate distances are Central London 90 km; Ashford 122km; Aylesbury 134km; Guildford 145km; and Northampton 155 km. This underlines the lack of rationale in selecting the region as the focus for the condition.

6.127 The only justification for sourcing waste from the East of England relates to the self-sufficiency argument. However, this is undermined by EEP Policy WM3, bearing in mind the uniqueness of the proposed plant. There is no justification for the proposed 80/20 split. It is unreasonable, and cannot be made reasonable by introducing a relaxation as suggested by ECC. Notwithstanding this, if an 80/20 split were considered to be necessary it would be preferable, more certain and proportionate to impose either a condition that the 80% portion should come from within a fixed distance (say 150km) or that it should be sourced from within the three neighbouring regions, namely the East, the South East and London. The additional ES information provided under Regulation 19 (Document CD/2/10) did not support an 80/20 criterion but stated (at paragraph 19.2.4) that the application was in conformity with EEP Policy WM3.

Issue 7: Other Matters

Listed buildings & the historic environment

6.128 The SoS is required, in the course of deciding whether to grant planning permission for development which affects a Listed Building or its setting, to have special regard to the desirability of preserving the building or its setting or any features of special architectural or historic interest which it possesses (Listed Buildings Act 1990, Section 66(1)).

6.129 The application contemplates the refurbishment and re-use of Woodhouse Farm, the Bake House and the Water Pump, all of which are listed. All are in poor condition. Although specific schemes of work have not been advanced at this stage, ECC and the LCG do not dispute that their refurbishment and re-use would enhance their character. That conclusion is not undermined by criticism of the way the building has been allowed to deteriorate without beneficial use.

6.130 The poor state of the buildings is such that any sensible and meaningful repairs would require Listed Building Consent. The buildings require structural

repair. BDC has an opportunity to require repairs to be undertaken, but no proposals have been put forward by any party which would indicate what is possible or necessary to bring the buildings back into a suitable state of repair.

6.131 In relation to the setting of these Listed Buildings, it is noteworthy that WLP Policy W8A contemplates major waste development within their vicinity. WLP Schedule 1, WM1, requires that screening and landscaping of waste management development should have regard to preserving the setting of the listed buildings at Woodhouse Farm. Such measures are employed in the eRCF proposal. The only listed buildings referred to in the Schedule at WM1 are those at Woodhouse Farm. This is a realistic reflection of the potential impacts on Listed Buildings and their setting arising from development of the preferred site. The evidence has confirmed in particular that the proposed eRCF would have no impact on the setting of other Listed Buildings, including Allshot's and Sheepcotes Farms, because of the distance between them and the impact upon them of existing development. The proposed eRCF does not affect the setting of Listed Buildings farther afield.

6.132 Objectors do not suggest that there is any material difference between RCF and eRCF in terms of impact on the setting of these Listed Buildings, except for the impact of the stack. The car parking proposed need not harm their setting.

6.133 A degree of consensus emerged during the course of the inquiry concerning the quality and accuracy of the photographic evidence available to assist the decision-maker on this issue: a particular example being that at Document GF/5/B/16. The stack, whilst noticeable above the trees from within the vicinity of Woodhouse Farm, would amount to a modest part of the wider view.

6.134 Albeit limited weight attaches to draft PPS15, there was no dispute that the benefits of the proposed eRCF in terms of low carbon energy production and the extent to which the design has sought to contribute to the distinctive character of the area should weigh positively so far as impacts on listed buildings are concerned. The climate change issues found in draft PPS15 however are required to be considered by the PPS on Planning and Climate Change (Supplement to PPS1).

6.135 In summary, the proposed parking and CHP stack would not have a significant adverse impact on the setting of nearby Listed Buildings and the benefits of restoration would far outweigh the resulting impacts.

6.136 Turning to the setting of the Silver End Conservation Area, it is acknowledged that the edge of the Conservation Area, shown on the drawing at Document G/5/D/10, is well-screened by vegetation and trees. The proposed eRCF would preserve the character and appearance of that small part of the Conservation Area that flanks open countryside to the east.

The historic airfield

6.137 No aspect of the airfield use remains. All that remains are a number of items of infrastructure including some of the hard surfaced areas and some hangers. The airfield facilities themselves are not designated or protected in any way. The note at Document GF/32 indicates, the history of the airfield by B A Stait (1984) states that it has "no special claim to fame". There are no significant issues arising with regard to the heritage significance of the former airfield.

Minerals

6.138 The siting of the eRCF below existing ground level is essential to reduce its visual impact and there is an overriding need to extract the sand and gravel on the site in accordance with Essex Mineral Local Plan First Review Policy MLP4. The eRCF accords with Structure Plan Policy MIN4 because the mineral resource would not be sterilised.

Perception of risk to health

6.139 The Community Group simply highlights its concern on this matter. The potential additional pathways identified by FOE did not undermine the conclusions of the HHRA (Document GF/9/E). There was no challenge to the conclusion that the eRCF would pose negligible risk to human health.

Overall Conclusion

6.140 The proposals are needed now to address a significant current waste management capacity need and to achieve climate change reductions in a manner consistent with current policy. The fact that the proposals would not meet all the needs of Essex in terms of waste capacity does not allow the luxury of time to allow the gradual development of policy, as some such as the FOE would prefer to see. The eRCF would make a strategic contribution to sustainable development.

SECTION 7 - THE CASE FOR ESSEX COUNTY COUNCIL

7.1 The committee report to ECC's Development and Regulation Committee of 24 April 2009 (Document CD2/12A), is a reasoned document which explains the basis of the committee resolution to inform the SoS that the Council was minded to grant planning permission subject to a number of matters. ECC recognised that despite non-compliance with some policy, a whole raft of development plan and national policy guidance was supportive of the proposals. Moreover, when the physical impacts of the proposal were examined, it was judged that they had been minimised, and they would have no materially harmful effects. The officer's report acknowledged that it is necessary to facilitate the delivery of waste management sites in order to meet the demands of local and national planning policy, especially the objective of driving the management of waste up the waste hierarchy. This calls for a flexible approach to be adopted. The resolution to grant planning permission should carry significant weight in the planning balance.

7.2 The response of ECC's built environment department as part of the consultation process on the application on which the Local Councils Group (LCG) relies (Document LCG/8/2 Document JA1/4) was a preliminary response by the built environment department. The final response is one of "no objection", for reasons explained in the officer's report. The process shows careful and conscientious consideration of the proposals from the built environment team.

7.3 The statements of Lord Hanningfield, the Leader of the Council, to the effect that there would be no incinerator in Essex without a referendum are understood to

refer to mass burn incineration, which is not proposed here. In any event, this is not a planning matter. The proposal was and is to be assessed in accordance with planning policy.

Issues raised by the call-in and pre-inquiry note

7.4 ECC's case is set out in Document ECC/2 and the officer's report at Documents CD/12A and 12/B.

Issue (i) – the extent to which the proposal is in accord with the development plan

7.5 The proposal is seen as a departure from the development plan, firstly, because it extends beyond the boundaries of the site allocated for waste management in WLP Policy W8A and Schedule WM1, and secondly, because it is in conflict with countryside policies of the BDLPR, namely Policies RLP27 and 78. ECC considers that the MDIP would be an industrial activity in the countryside. However, these are not significant departures from the development plan.

7.6 A large part of the area where the buildings are proposed is allocated for waste management facilities. The proposed buildings would extend beyond the allocated site, albeit to a limited extent. However, the principle of developing a waste management facility at this location accessed off the A120 is supported by the development plan.

7.7 Moreover, the WLP allocation does not incorporate land for access and does not incorporate Woodhouse Farm. The former is a necessary part of any proposal and the proposals for the latter are clearly beneficial. The proposed lagoon is outside the allocated site area but is also present in the RCF proposal for which planning permission has been granted. The RCF permission establishes the principle of waste facilities extending beyond the allocated site. Seen in this context the departure is not a matter of significant weight. It is notable that the RCF facilities were supported at the strategic level by the regional planning body [Document CD3/2].

7.8 When considering the RCF proposal, it was reasoned that the allocation of 6ha was based on the area required for a typical mass burn incinerator facility, considered at that time to be about 2.5ha. At the time of the public inquiry into the WLP, the technologies of MBT and AD were not as fully developed as today, or the site area required to implement them appreciated. The current proposals seek to drive the treatment of waste further up the waste hierarchy than the RCF proposals by incorporating a CHP plant utilizing residues from the MBT to generate electricity for processing and treatment of waste, and to provide electricity to the National Grid. Although the building would be larger than recommended at the time of the WLP by the Inspector, the possibility of sinking a waste facility into the ground had not been envisaged. The guidance in the WLP on the size of buildings at the Rivenhall site is intended to address the visual impact of any such buildings. The substance of the policy has been met by the proposal to sink the buildings into the site, which would substantially reduce the bulk of the visible structures when viewed from outside the site. The principle of an incinerator and a chimney was not discounted by the Inspector at the WLP inquiry. (CD/9/1A page 109, para 37.19)

7.9 So far as the BDLPR countryside policies are concerned, the proposed MDIP would be located within the building envelope, a large part of which is within the

allocated waste site. It would not of itself add any impact to the proposal which would be different to the impacts that would arise from the 'core' waste facilities. Moreover, the distinction between waste development and industrial development is not clear cut. Waste management development could be seen as a subset of industrial activity, and again, this departure is not viewed as a matter of significant weight.

7.10 ECC's officers and committee did not reach a view as to whether the proposals comply with the development plan overall, as the proposal was considered to be a justifiable departure from certain discrete policies of the development plan. However, the officer's report identifies an extensive degree of policy compliance.

7.11 Need is a matter to be addressed under the development plan. WLP policy W8A indicates that waste management facilities will be permitted at the sites allocated in Schedule 1 subject to a number of criteria being met, including there being a need for the facility to manage waste arising in Essex and Southend. The consideration of need also arises in the guidance of PPS10. It is common ground between the main parties that the question of need should be determined in the context of the RSS figures for Essex's apportionment. This approach is required by PPS10, and reinforced by the June 2009 report of the Regional Planning Body (Document CD5/2). Those figures demonstrate a clear need for the facilities so far as they provide for MSW and/or C&I waste. The proposals comply with the RSS (policies WM1 and WM4) so far as the question of need is concerned. It is also agreed that the assessment of need should not be based upon the emerging revised Regional figures.

7.12 There is a need for the facilities even if the analysis is based upon the more conservative figures set out in the report on waste arisings and existing treatment capacity prepared by ERM in 2007 on behalf of the WPA (Document CD 10/3). Since the capacity analysis in the ERM reports are not reliable, and are likely to be an overestimate, the actual level of need would be greater.

7.13 Although no party supports the use of the consultation figures for waste arisings issued by the regional planning body (Document CD 5/8), both the applicants and ECC agree that even on the basis of these figures, a clear need for the facility exists.

7.14 The JMWMS (Document CD 8/2) is not technically a planning policy, but it interacts with planning policy because it represents the agreed strategy of the waste collection authority and the disposal authority on how the waste needs of Essex are to be met. The JMWMS clearly supports the development of MBT and AD facilities, and facilities to create SRF and to burn it to produce energy. It expressly endorses the proximity principle for the purposes of managing residual waste, which would include SRF. Moreover, it aims "to deliver an innovative and resource efficient waste management system for the county". The JMWMS is therefore supportive of the proposals. There is no proposal for a CHP in the county apart from the eRCF.

7.15 The OBCs 2008 and 2009 are not planning policy but an outline business case for the purposes of obtaining central government funding for the disposal of MSW. The RCF only dropped out of the OBC after 2008 because the county did not control the site, and therefore it could not be used as the reference case for the OBC. In addition, inclusion of a CHP plant in the OBC would exclude competition, because the

only site currently being put forward with a proposal for such a facility is the application site at Rivenhall. The significance of the OBC is that it evidences ECC's need and desire for an operator and site to handle its MSW contract. The RCF and the eRCF would be able to bid for that contract and the additional competition they would introduce would be welcomed by the WDA. It demonstrates that the eRCF could meet the county's need to dispose of its MSW, quite apart from its capacity to meet C&I waste arisings. The facilities contained in the OBC would not be adequate to dispose of all of the county's MSW arisings.

7.16 There is therefore a need for the type of facility proposed in order to achieve the national waste objectives set out in PPS10 paragraphs 1 and 3 and Policy MW1 of the RSS, and to achieve the recycling targets for Essex and the East of England, set out in Policy MW2 of the RSS. The proposed facility would help to deliver these objectives by moving waste up the hierarchy. It would recover recyclables, produce compost and reduce the need for disposal of residual material to landfill by using such material as a fuel for combustion in the CHP plant. It would also use imported solid recovered fuel (SRF) from other permitted waste management facilities in Essex, which might otherwise go to landfill. The scheme would generate electricity and provide a specialized facility for the recovery of recycled paper. In recovering paper pulp, the residues arising from the process would also be used as a fuel in the CHP, removing the need for offsite disposal and the potential for such material to be sent to landfill. The need for specialized waste facilities serving more than the local area is recognized in RSS policy MW3.

7.17 With regard to the need for the MDIP facility, the applicants have been open about the difficulties currently faced in sourcing sorted paper and card of the required quality from within the region. However, the provision of the facility is likely to stimulate greater recovery of paper waste from existing waste. It cannot be argued that there is no need for the MDIP given that it would be the only facility of its kind in the country and the material to feed it undoubtedly exists. RSS policy WM3 supports such specialist facilities and acknowledges that some compromise to the proximity principle may be appropriate in such cases. There is a balance to be struck between self-sufficiency and the proximity principle on the one hand, and the operator's need for commercial security on the other. This underlies ECC's structured approach to a condition relating to paper and card waste from outside the region (See paragraph 7.41 below).

7.18 In summary, most of the policies in the development plan are complied with, and to the extent they are not, the non-compliance is justified. In particular, the evidence demonstrates that there is a need for the facilities, and the application site is an appropriate location to accommodate that need.

Issue (ii): the quality of design and effect on the character of the area (including CD 8/9, Designing Waste Facilities (Defra, 2008)).

7.19 The proposal has been designed to reflect the site's history as an airfield. The 2 arched roof main buildings would reflect the design of a hangar, with green roofs to minimise their visual impact and provide potential habitat to replace some that would be lost as a result of the development. The proposal has been designed aesthetically rather than functionally. It reflects a previous use of the site to which the community attaches some significance and which is regarded as an acceptable and

proud part of its history. CABE supported the design of the RCF proposal which has much in common with the eRCF.

7.20 Other aspects of good design include:

- (i) The sinking of the plant within the ground to reduce its visual impact. Such an approach would also reduce the visual impact of the access and enable the proposal to employ the minimal use of bunding and screen planting.
- (ii) The positioning and reflective finish of the stack so as to mitigate its visual impact.
- (iii) Minimal use of lighting on and around the plant.
- (iv) Measures to reduce the operational impacts, such as negative pressure within the building.
- (v) Extensive landscape mitigation and additional tree planting.
- (vi) Co-location of the SRF producing facilities with the CHP and MDIP plant.
- (vii) Taking the opportunity to refurbish and re-use the currently run down listed Woodhouse Farm.

7.21 The Defra guidance 'Designing Waste Facilities' (Document CD/8/9) acknowledges that getting waste facilities to "fit in" with the existing fabric is often inappropriate or impossible because of the scale of buildings involved. This should not be read as advising against buildings that do not fit in with their context. Rather, it is an acknowledgement that it would be inappropriate and unrealistic to judge the success of a design by reference to whether it fits in or not. Design of waste facilities need to be judged flexibly, recognising the inevitable limitations which their function places upon their design. The guidance also supports the use of imaginative solutions to minimise the impact of stacks, and advises that careful consideration be given to whether 'hiding' a new building is really appropriate, pointing out that "new buildings should not automatically be seen as a negative".

7.22 The proposal does 'fit in' with its setting. The main buildings and the stack have been thoughtfully designed to respect their context and minimise their impact. The main point of concern of objectors is the stack. It is impossible to hide the stack, but this need not be seen as a negative feature in the landscape. In any event, if it is accepted that there is a need for the eRCF then the stack is inevitable. In this case its impact has been minimised.

7.23 It is considered that there is an opportunity to enhance the sense of arrival at the facility by requiring details of materials and colours to be controlled by condition and by providing public art on the front of the building. The impact of the proposal could be further controlled by means of a legal obligation to maintain planting and provide additional planting adjacent to the southern boundary of the site as soon as possible after the issue of any planning permission.

7.24 Overall the scheme is of good design and would not have an adverse effect on the character of the area.

Issue (iii): The extent to which the proposal is consistent with PPS7

7.25 The site is not located within an area of particularly sensitive countryside and there are commercial and mineral developments in operation nearby. The site itself has features of previously developed land, being the site of the former airfield. The

principle of a waste management facility in this location served from the A120 is enshrined in the allocation in the WLP. The WLP inspector did not rule out an incinerator on the site, indeed WLP policy W7G expressly contemplates that such development may be acceptable. The RCF permission is a weighty material consideration so far as the acceptability of the size of the development and its impacts on the countryside are concerned, as it represents a fall-back position.

7.26 One of the main concerns so far as countryside impact is concerned is the effect of the stack. Its impact has been minimised through its location and design. The proposed height is understood to be the minimum necessary to comply with relevant emissions standards and the width allows a number of chimneys to be accommodated within the single stack.

7.27 The relationship of the MDIP facility with countryside policy is addressed above at paragraph 7.9. Its co-location with waste facilities maximizes the efficient use of energy. Moreover, the access to the site directly off the A120 is a requirement of the WLP, with respect to preferred site WM1. Moreover, the facility would be located centrally in terms of its ability to serve Essex.

7.28 The development would provide some enhancement of the countryside. Although about 1.6ha of woodland would be lost, some subject to TPOs, the proposal includes planting of approximately 3.4ha of additional woodland and 2kms of new hedgerow. About 19.1ha of open habitats would be lost, although the proposal includes the long term management of both existing and new areas of habitat, including the green roofs of the proposed main buildings. The proposal also includes the management of existing and proposed water bodies to enhance bio-diversity, together with mitigation measures with respect to various species, some of which are protected.

7.29 There would be a loss of some 12ha of best and most versatile agricultural land. Although the loss of such land should be avoided, the emphasis in the last 5 years has moved to soil resource protection. It is noteworthy that Natural England did not object to the proposal. Soils stripped from agricultural areas would be used on screening bunds; on new areas of woodland and grassland; and to enhance the restoration of agricultural areas within the adjacent quarry.

7.30 The refurbishment of the derelict listed buildings at Woodhouse Farm, bringing them back into beneficial afteruse, would be an enhancement of the countryside. Overall, it is concluded that there would be no conflict with the objectives of PPS7.

Issue (iv): The extent to which the proposal is consistent with PPS10

7.31 The proposals comply with the objectives set out in paragraph 3 of PPS10. The development would support sustainable waste management by providing a facility which would enable waste to be treated at a higher level of the waste hierarchy. The AD would create compost suitable for use in agriculture together with biogas for use in electricity generation. Methane generated by landfilling would be reduced. The MRF would ensure the recovery of recyclables. The MBT would shred and dry waste to allow recovery of recyclables in the MRF and produce SRF for the CHP. In turn the CHP would reduce the need for landfilling of residuals from the MBT as well as providing a facility to use other SRF produced in Essex. The CHP would also deal with residues for the MDIP facility.

7.32 With regard to self sufficiency, the facility would meet a need in the region to deal with MSW and/or C&I waste. The facility would meet the third objective by pushing waste up the waste hierarchy and helping to achieve national and regional recycling targets.

7.33 The application was supported by an EIA which included an assessment of the impact on health and the environment. It was subject to consultation with the EA, Natural England and the Primary Care Trust, all of whom raised no objection to the proposal. Subject to appropriate conditions and obligations, the impacts of the development could be adequately controlled or mitigated, and the proposal would pose no significant risk to human health and the environment.

7.34 The application was subject to full consultation with the public and consultees. The proposed technologies are in line with those identified in the JMWMS, such that if planning permission were granted the facility could compete for MSW contracts within Essex. The development would maximize the efficient use of energy generated at the site, by co-locating the MDIP with the CHP plant and thereby providing potential to achieve wide environmental benefits. This has in part given weight to the justification for a departure from development plan policies in terms of the site's location in the countryside.

7.35 The integrated nature of the proposal minimises the need for the export of residuals, including on-site use of SRF and paper pulp residues in the CHP plant. The proposals also include the on-site collection, recirculation and treatment of water, minimising the need for fresh water and for off-site treatment of dirty water. The design and layout supports a sustainable form of waste management.

7.36 The eRCF can meet the need to treat both MSW and C&I waste arisings, consistently with PPS10 paragraph 8. The need case supporting the proposal does not rely on "spurious precision" in relation to estimated waste arisings, as deprecated by paragraph 10 of the PPS. The need case is clear and comfortably met. It is based on the RSS and advice from the regional planning body.

7.37 The WLP identifies much of the application site for waste management facilities, without any restriction being placed on the type of facility in question. To that extent the WLP is consistent with the role of development plans as described in paragraphs 17 to 19 of PPS10.

7.38 The proposals meet the guidance in paragraph 24 of PPS10 relating to development on unallocated sites and there is no evidence that the proposals would prejudice the movement of waste up the waste hierarchy. In this respect the proposal is in accord with paragraph 25 of the guidance.

7.39 Although the MDIP facility may not be justifiable on the basis of need to process sorted paper waste arising entirely within the region, the underlying aims of sustainable development are met by this unique facility.

7.40 The CHP in particular would assist in reducing the amount of residual waste that needs to be consigned to landfill, and would generate useful energy from waste, consistently with the aim of using resources prudently and using waste as a source of

energy. For all the above reasons, the proposal is consistent with the objectives of PPS10.

Issue (v): Conditions

7.41 The suggested conditions that should be applied in the event of planning permission being granted are set out at Document ECC/7. The only condition which is contentious between ECC and the applicants is the condition relating to the proportion of imports to feed the MDIP facility. This condition is necessary to ensure that the applicants have an incentive to seek feed stock from within the region, and that an initial inability to do so does not result in a total abandonment of the proximity and self sufficiency principles for the future.

Issue (vi): Section 106 Obligations

7.42 Planning permission should be subject to a 106 agreement in the form submitted. Attention is drawn to the proposal for a community liaison group.

Issue (vii): Listed Buildings (Woodhouse Farm)

7.43 Woodhouse Farm is listed as a building at risk. It is in urgent need of care yet there is no proposal or prospect of any care being given to it apart from the eRCF or RCF proposals. Witnesses for the Local Councils Group and the Community Group accept that in principle the proposed refurbishment and re-use of the Farmhouse is a benefit. The form, specification and merits of any listed building application would be assessed by Braintree DC as the local planning authority. The quality of the restoration is therefore in that objector's hands.

7.44 The main issue of concern to objectors appears to be the effect of the chimney on the setting of the listed buildings. However, the chimney would only be seen in certain views and would be some distance away from the building. Overall the setting of the listed building would not be adversely affected. Notwithstanding this, the much needed refurbishment of the fabric of the listed building that would be brought about by the proposals would outweigh any harm to its setting.

7.45 The choice is between further decay of the listed building, or restoring it and bringing it back into active and beneficial use, when it would be seen and enjoyed by members of the public visiting the site. The effect on the listed building is therefore positive overall.

7.46 Objectors also refer to the impact on the Silver End Conservation Area, but this is so far away from the site that it would not be harmed by the scheme.

Issue (viii): The fall-back position

7.47 The RCF is relevant in two main ways. Firstly, as a fall-back and, secondly, as a recent planning permission for similar development on an identical site. The fall-back position was not taken into account in ECC's consideration of the scheme. No assumptions were made as to whether the RCF would proceed if the eRCF were refused permission. However, the second of the two factors was taken into account by comparing the merits of the eRCF to those of the RCF.

7.48 The RCF would not be an unacceptably harmful development. It is supported by current planning policy and justified on its merits. Moreover, it is consistent with and would further the aims of the JMWMS. There is no reason to doubt the applicants' evidence that it would implement the RCF if the eRCF were refused permission, particularly given the position on need. The RCF therefore represents a fall-back position for the site against which the eRCF falls to be considered.

7.49 It is also relevant as a recent planning decision for similar, though not identical, development having similar environmental impacts, covering a similar site, and which had been assessed in the same policy framework as the eRCF. The RCF sets a benchmark against which the differences between the RCF and eRCF should be assessed. The RCF permission demonstrates the acceptance of the principle of built waste management facilities on a site extending beyond the boundaries of the WM1 allocation, which was supported at the regional level (Document CD 3/2). It also demonstrates an acceptance of the visual and other environmental impacts, including traffic impacts that would be introduced by the RCF. The real difference between the two proposals is the chimney stack.

7.50 Objectors have concerns about reliability of the applicants' 404 HGV movement cap, and have sought to cast doubt upon the relevance of the RCF as a fall-back so far as traffic movements are concerned. The applicants indicate that they could control HGVs entering the site by contractual means. The proposed condition limiting the site to 404 HGV movements is clear, precise and enforceable. It also provides an incentive to the applicants to ensure that vehicle movements are used efficiently. It supports sustainable transport objectives. In contrast, the RCF permission contains no condition expressly setting a movement cap. The 404 HGV movements cap would therefore be a benefit.

Issue (ix): Flexibility

7.51 Draft condition 19 would allow some control over the detailed configuration and layout of the plant.

SECTION 8 - THE CASE FOR THE LOCAL COUNCILS GROUP

The need for the facility

8.1 For policy reasons the applicants must demonstrate need. However, even if need is demonstrated, it has to be weighed against harm that may arise, for example, the harm that would be caused to the countryside. The application proposes an IWMF that is too large to be accommodated on the preferred site in the WLP, and its capacity would be far greater than the perceived need.

8.2 There are two/three aspects of need to examine, namely that relating to MSW/C&I waste and to the paper pulp facility. The position in respect of MSW is by and large clear. ECC as WDA are satisfied as is evidenced by their OBC 2009 (CD/8/6) that a single MBT plant at Basildon will give them sufficient capacity to deal with likely MSW arisings. There is therefore no "primary" need for this facility to deal with MSW. The only advantage of the application proposal is that it would create more competition and provide a "home" for SRF arising from Basildon. These aspects might perhaps be considered as secondary or ancillary need.

8.3 However, very little weight should be given to these two points. ECC can and will ensure competition by allowing all potential operators to have access to the Basildon site on equal terms. Furthermore ECC are comfortable in not determining at this point in time the destiny of the SRF arisings. Although, at present, there is no other facility in Essex for securing energy from the SRF, ECC's strategy is to deal with that in due course. The JMWMS (CD/8/2) indicates that ECC will deal with it as far as it would be consistent with the proximity principle. Rivenhall may not be the most suitable location having regard to such principle. Moreover, SRF is a valuable fuel and there can be no doubt that there is a developing market for it. Other sites such as Sandon may come forward.

8.4 As regards C&I waste, it is acknowledged that the needs argument of the applicants are more persuasive. However, even on the 2007 analysis, the case for an MBT dealing with C&I waste is marginal, under the "best case" scenario put forward in the 'Waste Arisings, Capacity and Future Requirements Study: Final Report (February 2007)' as described in Document LC/1/A. The best case scenario assumes 0% growth in waste production, C&I waste generation remaining at 2002/3 levels. In contrast the worst case scenario does not reflect the current downturn, nor does it consider the overall thrust of current waste management policy. It represents a maximum level of C&I waste growth, assuming the economy continues to grow and no waste reduction measures are implemented.

8.5 One MBT facility may be justified, but this could be met by the ECC resolution to grant permission for development at Stanway. The 2009 analysis, adjusted, shows the same result, namely that there is "headroom" or overcapacity taking both MSW and C&I waste into account.

8.6 The current adopted RSS policies are based on anticipated levels of waste arisings which are simply not occurring at present. The actual arisings are significantly lower than estimated and the emerging regional studies suggest quite strongly that general C&I waste arisings are unlikely to increase significantly above present volumes in future. This has prompted a review of policy which is continuing with discussions with the individual WPAs. ECC acknowledges the need to take account of the EERA findings, in progressing work on the Waste Core Strategy. Caution should therefore be applied when giving weight to any need based on clearly outdated estimates.

8.7 With regard to the proposed MDIP, it has been estimated by Urban Mines that 437,000 tonnes of paper and card are currently recovered in the East of England for recycling (P72-CD/10/1). This figure is not disputed. Moreover, at best, only about 36% of this recovered paper would be of a suitable quality for the MDIP proposed i.e. 157,000 tpa. This is significantly (203,000 tpa) less than the required input and the recovered paper is already being used in other processing facilities. Even this figure is too high and only around 18-20% of recovered paper is within the essential uncoated wood free grades. The applicants therefore have to rely on their view that additional resources can be obtained by improving the rate of recovery of paper consumed in the East of England, by obtaining paper passing through the region for export and from the supply to an existing MDIP at Sittingbourne which is to close, but which sources most of its material from outside the East of England. The applicants are being over optimistic in this regard.

8.8 It is not disputed that potentially higher volumes of paper consumed in the East of England could be recovered for recycling, although there is no certainty as to the additional percentage which could be recovered. This is recognised in the report entitled 'Market De-inked Pulp Facility - Pre Feasibility Study' (CD/10/2) published by The Waste and Resources Action Programme (WRAP) in January 2005. This notes that previous research has shown that in the office sector there is an irretrievable loss of around 15% of all office paper. Moreover, it would be uneconomic to collect a proportion of fibre, particularly from small businesses employing up to 10 people, and some fibre is already used by mills with integrated facilities. It must also be borne in mind that planned and incremental increases in the paper industry will result in competition for recovered paper feedstock.

8.9 Potential feedstock of waste paper can be "lost" because it may be too contaminated and because of difficulties in collection and sorting. These factors must be viewed against a background where only a small proportion (36%) of recovered paper is likely to be suitable for the proposed MDIP facility. The applicants' approach appears to be over ambitious.

8.10 Similarly, there is uncertainty as to the paper which can be "diverted" from export. In policy terms, it is questionable whether waste paper arisings which have occurred in other parts of the country should be attracted to Rivenhall having regard to the proximity principle and communities taking responsibility for their own waste.

8.11 With regard to the existing MDIP facility at Sittingbourne, it is recognised that this is scheduled to close in 2011. However, there is no firm evidence to show that its current input would be available to Rivenhall. Furthermore, there is likely to be a three year gap between Sittingbourne closing and Rivenhall becoming operational. The current supply would almost certainly be attracted to other markets. The demands of the tissue making market could well intervene. Feedstock would have to be obtained from the market and the applicants rely heavily upon their ability to offer competitive prices. Their assertion to be able to do so is largely unproven. A full viability appraisal has not been produced.

8.12 In conclusion, there is significant doubt as to whether there is a realistic or adequate supply available within the East of England and if this scheme were permitted it is likely that a significant proportion of the paper would be attracted from outside of the region which would not of itself be desirable. This is demonstrated in the applicants' wish to amend or remove the original terms of suggested Condition 27 (now renumbered as Condition 30).

8.13 There are no free standing MDIP facilities in the UK and for efficiency and market reasons, it is much more likely, as indicated in the WRAP study (Page 143 Document CD/10/2), that these would be built as part of integrated paper mills. Historically, MDIP mills have been difficult to justify on economic grounds. It is cheaper for a paper mill to utilise de-inked pulp that has been produced on site in an integrated process. This avoids additional processing costs, such as drying prior to transportation.

8.14 The overall need for the IWMF has not been fully demonstrated, and insofar that any need has been demonstrated, the weight to be applied is not significant.

Landscape/visual impact

8.15 The site lies within open countryside in an area that is regarded as tranquil. Even the applicants' landscape witness accepts a description of "relatively tranquil". Generally the site forms part of a high open plateau from where and across which there are distant views. It is not accepted that the remnants of the World War II airfield, existing industrial uses, and the existence of gravel workings has "despoiled" the area to the extent suggested by the applicants. Although there are a number of businesses in the locality, such as those using former agricultural buildings at Allshot's Farm, these businesses are well established and are generally contained within defensible curtilages and do not impose themselves on the countryside to an extent that they detract from its open and rural character .

8.16 The Landscape Character Assessment undertaken by Chris Blandford Associates (Doc GF/5/B/4) describes the area away from the main roads and the sand and gravel pit as tranquil. It also indicates that the character of the area has a moderate to high sensitivity to change. Clearly there is some doubt as to whether the site could accommodate the proposed development without significant consequence.

8.17 The proposed building and other structures would have a footprint of more than 6 ha, and the development would result in the remodelling of an even greater area together with the loss of 1.7 hectares of semi-mature woodland and other associated engineering works. It is a major development.

8.18 There is a well used network of footpaths in the vicinity of the application site and the development would have a significant impact in particular on users of footpaths 8 and 35. For example, walkers on footpath 8, apart from seeing the stack would also, when approaching the site from the south, be likely to see the rear of the AD tanks, particularly in winter. Moreover as walkers passed the listed buildings at Woodhouse Farm, the backdrop would be dominated by the stack. Although a hedge would partially screen views, walkers on footpath 35 would on occasions be able to see the front of the building, which would be some 200m wide and 20m in height.

8.19 The proposed development would have a detrimental impact on the setting of the listed buildings at Woodhouse Farm. The proposed stack would tower over Woodhouse Farm, and its impact would be even greater if the EA require an even taller stack. The development would be visible over the tops of existing trees. The development would also be visible from Silver End and detrimental to the setting of the village.

8.20 Away from the site, views of the building, much less the stack, would be possible, as demonstrated in the montages at locations 2 and 5, namely Sheepcotes Lane and Cuthedge Lane, in Document GF/5/B/11. It is clear from these montages that the building would be visible at both locations even at year 15. Moreover, these montages should be interpreted with caution, many, for example, do not show the correct proportions of the proposed stack. The stack is considerably wider than shown on many of the montages. Moreover, the rate of growth of new vegetation is unlikely to be as rapid as anticipated in the montages. For example, the applicants accept that to effectively replace some of the lost woodland would take around 40 years.

8.21 The montages at location 6, (Drwgs 8.7.11 and 12 in Doc GF/5/B/11), taken from Holfield Grange to the north of the A120, more than 3 kilometres from the site, show that the stack and the front of the building would be visible for significant distances. Drawing number GF/5/D/9 shows the stack potentially having an impact over a very large area.

8.22 Document CD/16/3 sets out the LCG's view that the applicants have not adopted a realistic approach to optimising the stack height. It is likely that a stack significantly taller than 35m in height would be required with consequential increased visual impact. The applicants should have engaged in a dialogue with the EA prior to the inquiry in order to establish the likely range of the required stack height. Planning permission should not be granted with such significant uncertainty remaining over the stack height. A further application to ECC for an increase stack height would not meet the requirements for certainty and good planning as set out in national guidance.

8.23 The Defra Guidance entitled 'Designing Waste Facilities – a guide to modern design in waste' (Document CD/8/9) recognises at page 70 that the siting of a large building in the countryside is generally contrary to the principles of planning set out in PPS1 and other national guidance. It also warns about seeking to hide buildings with unnatural earth bunds. More importantly it indicates that the scale of buildings can present considerable challenges which make "fitting in" with the existing fabric often inappropriate or impossible. This is one of those cases. The proposal is not compliant with PPS 7 or policy 78 of the BDLPR.

8.24 It has long been a major element of national policy that the countryside should be protected for its own sake. Moreover, generally speaking significant developments in the countryside fly in the face of policies on sustainability. Substantial weight should be given to the adverse impact this proposal would have on the countryside together, obviously, with the associated breaches of current countryside policy.

8.25 It is acknowledged that part of the application site is allocated for a waste management facility. However, in accepting this as a preferred site in a countryside location, the Inspector who held the Inquiry into the WLP, recommended that the site be reduced in size from that originally put forward and made a specific recommendation as to the size of any building associated with a waste management facility. Moreover, the eRCF differs from the RCF. The excavated hollow would be greater; the extent and height of the buildings would be greater (the building footprint would be 17% larger); the space for the buildings would be cut more squarely into the landscape and involve the loss of more woodland; and a substantial stack would be built. There is no specific support from EERA for either the stack or the paper pulp facility, nor any view given by CABE on this scheme.

8.26 The eRCF involves the loss of a greater depth of woodland than the RCF. Moreover, the stress caused to existing vegetation, by coppicing and the dewatering of soils that would occur, could result in further loss of vegetation.

8.27 In summary, the proposal would have a detrimental visual effect and be harmful to the landscape of the area.

Traffic Generation/Highways

8.28 The applicants maintain that HGV movement would be restricted to 404 per day, requiring an average payload of 23 tonnes per load. They acknowledge that this can only occur if virtually all of the waste comes via a waste transfer station (WTS) and has undergone some form of compaction. Such an approach does not stand up to scrutiny.

8.29 The applicants concede that the necessary network of WTSs does not presently exist. Moreover, the letters submitted from hauliers (GF/2/B Tab 15) do not convincingly demonstrate that average payloads of 23 tonnes can be achieved. Not all vehicles making deliveries to the site would be under the direct control of either the applicants or the waste operator. As the facility would operate in the open market, it would be unrealistic for the operator to insist that only full loads (23 tonnes) be delivered to the site. In addition there is no convincing evidence that a backload system could operate.

8.30 If the RCF was expected to generate 404 HGV movements in carrying 906,000 tpa, it is illogical to expect the eRCF to generate the same number of HGV movements when dealing with 40% more, namely 1,272,075 tpa. Either the traffic generated by the RCF was over estimated or that of the eRCF was under estimated. There can be no doubt that the eRCF would generate more traffic than the RCF. Using RCF payloads, the eRCF would be likely to generate about 548 HGV movements (Doc LC/3/A). If the EA's conversion factors for analysing waste and calculating volumes were used, the payloads of vehicles would be significantly lower than those used in the assessments by the applicants (Document LC/1/A). Traffic generation should be assessed on a realistic but worse case scenario. It is likely to be about 37% higher than that suggested by the applicants.

8.31 The Highways Agency only accepted that the eRCF would not have an adverse impact on the trunk road network on the basis that there would be no additional trips generated by the eRCF when compared with the RCF (Documents GF/10/B/6 and7). It is not known what approach the Highways Agency would have taken if it had been advised that the likely HGV movements generated would be greater than predicted.

8.32 The sole access for the proposal is onto the existing A120. This is a road which is currently operating well beyond its economic, design and practical capacity. This results in flow breakdown, reduced average speeds and extensive queuing, and there is no prospect of the A120 being improved in the near future. As a general guide, Annex D of TA46/97 indicates that the Congestion Reference Flow for a single 7.3m trunk road is 22,000 vehicles per day. The Annual Average Daily Traffic Flow for the A120 Coggeshall Road in 2008 was 24,144, demonstrating that the road has no spare capacity, resulting in congestion during the peak periods (Document LC/3/A).

8.33 An additional 404 HGV movements a day would result in a 30% increase of such traffic on the A120. If the likely traffic generation is greater, then the percentage increase would be even higher. This additional traffic would further reduce road safety. The applicants argue that the road would accommodate the additional traffic as the increase would be relatively small. Although the A120 may be able to accommodate the additional traffic it would be at the expense of further congestion. It cannot be right to simply allow more and more traffic onto this road.

8.34 When dealing with other development proposals in the area, ECC has sought to ensure that additional traffic is not generated on this road. Moreover there is no doubt that local residents are inconvenienced by existing traffic levels on the A120 (Document LC/4/A). There must be a point where potential traffic generation dictates that development should not be permitted. Policy T6 of the East of England Plan refers to the economic importance of the strategic road network to the region. The policy seeks to improve journey reliability by tackling congestion; to improve the safety and efficiency of the network; and to mitigate the environmental impacts of traffic. If permitted, the eRCF proposal would exacerbate the current difficulties.

8.35 The access road to the site crosses two country roads, Church Road and Ash Lane. Many HGVs merely slow at these junctions rather than stop. There have been accidents at these junctions in the past. The proposed trebling of HGV traffic on the access road would increase the risk of accidents at these junctions. The additional traffic passing through the Upper Blackwater Special Landscape Area would be detrimental to the rural character and peaceful nature of the countryside.

8.36 In relation to other highway matters, it must be recognised that the application site is remote. The proposal would not be readily accessed by public transport, walking and cycling. It would not reduce the need to travel by car. In this respect it is not PPG13 compliant. This, and the fact that the proposal does not comply with PPS7 should be given significant weight and militate against the scheme. The proposal is not a use which must occur in a countryside location. An urban area or fringe location with good access to the main road network would be more suitable and appropriate.

8.37 There is also concern that HGVs associated with the development would use local roads to the detriment of highway safety and the free flow of traffic on such routes. The waste operator would not have full control over all vehicles visiting the premises. They would not be contracted directly to the operator. This is evident from the Section 106 Agreement. Moreover this is a facility that would “welcome” substantial amounts of waste for recycling and treatment. Paper collectors, for example, may wish to visit at the conclusion of their rounds. The operator would have relatively little control of many vehicles visiting the site and would be able to do little more than politely request third parties to use the appropriate roads to access the site. Whilst the Section 106 Agreement provides for third party drivers to be disciplined, it would be difficult to enforce the routing requirements particularly when the policing would have to be undertaken by the public who would not necessarily be aware that a particular vehicle should not be on a particular road.

Other Matters

Ecology

8.38 When considering the ecological impact of the proposal, the applicants' evidence at Document GF/8/B/1 indicates that in five respects a negative impact would be certain. This leads to a requirement to judge the likely success of the mitigation measures. Paragraphs 5.4 and 5.5 of the 'Guidelines for Ecological Impact Assessment in the United Kingdom' (Document GF/8/B/2) refer to the potential uncertainty of mitigation measures and arguably give a warning that there can be no guarantee in respect of such matters. The applicants have given no categorical

assurances that the proposed mitigation/compensation measures would be totally effective. Local residents are concerned about the potential impact of the proposal as a result of factors such as light and noise pollution, and traffic generation, and the difficulty of ensuring that mitigation/compensation measures would be successful. There will always be some risks associated with such a large scale development. Moreover, the applicants accept that it would take many years to replace the lost woodland.

Noise

8.39 Noise levels in the locality are at present very low. The principle sources of noise appear to be agricultural vehicles, the quarry and distant traffic noise as indicated for example in paragraph 12.3.3 of the ES (Document CD2/7/12). It is especially quiet at night, when noise is almost undetectable. Any quarry noise is of a temporary nature and is necessitated by the fact that the development has to occur where the gravel exists. By contrast a countryside location for this development is not essential.

8.40 At certain times the overall noise climate is likely to increase. For example, Table 12-3 of Document CD2/7/12 indicates that a background noise survey gave readings of 29-43 dBL_{A90} during the day at Herons Farm. In contrast, paragraph 40 of Document GF/2/D/1 indicates that worst case noise levels at receptor locations during construction could be between 44dB(A) and 52db(A). There are also concerns about noise being contained within the building, given the size of the door openings and the number of vehicles visiting each day. The noise limits set out in the suggested planning conditions are indicative of the increase in noise levels that would be likely to occur.

Air quality

8.41 Whilst air quality may remain within legal limits it would nevertheless deteriorate. This is unwelcome. Moreover, in response to the formal consultation on the application the EA advised that the proposal in respect of the stack did not appear to represent Best Available Technology. Design changes have been undertaken since that time, but there is no observation from EA on this amended proposal. The EA points out that it is not enough to demonstrate that the EALs would not be breached. There is a statutory requirement to ensure that air quality is not significantly worsened. This raises concerns about the approach adopted by the applicants who have concentrated on compliance with EALs whilst not addressing the issue of actual air quality. EC Directive 2008/50/EC (due to be implemented in 2010) states that 'air quality status should be maintained where it is already good, or improved'. The eRCF would result in a deterioration in local air quality. The EA points out that NO₂ and CO₂ would increase, resulting in a significant worsening of air quality.

8.42 In Document CD/15/7, the EA indicates that the long term annual mean ($\mu\text{g}/\text{m}^3$) for arsenic set out in the latest version of H1, which is presently out for consultation, will be 0.003. This is half the figure used by the applicants, and if the revised figure were used the level of arsenic would be equalled or exceeded at no less than 23 locations. The peak concentration at Footpath 35 of 0.0068 would be 127% above the proposed new figure.

8.43 It is recognised that an EP application could not be made until there was a known identifiable operator. However, given the concerns of the local residents it is unfortunate that greater dialogue with the EA has not taken place in order to allay the fears of the local community. These fears cannot be totally dismissed. They are genuinely held and reasonably so. The extract from the Encyclopaedia of Planning Law at Document GF/3/B/3 indicates, in these circumstances, that some weight should be given to the fears and concerns of the local community. In this regard, it is unfortunate that the applicants have declined to monitor air quality at the boundaries of the site.

Lighting

8.44 The proposal is at a location where at present there is little or no artificial light at night. The scheme would change this situation. The extent of change is unknown as full details of the proposal and its lighting are unknown. However, the facility would operate 24 hours per day, 7 days a week. Staff would be present at all times. The applicants accept that in the morning, between 07:00 hours and daylight, and again in the early evening, between dusk and 18:30 hours, lighting would be essential. The facility would be open for business during these hours receiving waste etc. Outside of these hours, it is suggested that external lighting would only be used when necessary and that such lighting could be controlled by movement sensors. It is doubtful whether such an approach is realistic.

8.45 Light pollution is another factor whereby the development would have a detrimental impact on the area, the extent of which is unknown. As indicated at CD/16/4, the precise form of lighting that would be installed at the site is uncertain; the lighting schedule put forward by the applicants is subject to change. Notwithstanding this, it is essential that the proposal to provide full cut-off lighting at zero tilt, with an average lighting level of no more than 5 lux is adhered to. The site is known locally for its 'dark skies', affording views of the starry night sky. Such locations are becoming increasingly rare in Essex.

8.46 The proposed lighting schedule for Woodhouse Farm car park gives two options. The option with 8m lighting columns is the 'least worse' solution. It would provide more uniformity of light, and lower peak measurements than the option using lighting bollards which would give rise to substantial levels of sideways light emission. The whole site, including the Woodhouse Farm car park, should be designated as being an area classed as E1 under the Institute of Lighting Engineers Guidance Notes, namely the most sensitive, with the most control needed. The whole of the site is currently in a dark unlit location.

8.47 Proposed Design 2 for the lighting of the main plant area is preferable. This requires fewer lights and would result in a lower average and peak level of lighting. Notwithstanding this, there would be some reflection of light contributing to light pollution, and during misty conditions light would scatter within droplets of water in the air.

Overall conclusion on other matters

8.48 Although the effects on ecology, the consequences of noise, the reduction in air quality and the likely effect of lighting are all matters which may not individually justify refusing this application, they would cause harm to the area. When combined

with the landscape and visual impacts of the development, they would have a significant adverse impact on the character of the area and the living conditions of local residents.

The Fallback position

8.49 It is acknowledged that the existing planning permission for the RCF is a material consideration. However, little weight should be given to it, because there is no convincing evidence that it would be implemented. ECC resolved to approve the application in 2007 but it was not until 2009 that the requisite Section 106 Agreement was completed. Following the resolution to approve the scheme, the applicants wrote to ECC describing the RCF as an “indicative” scheme (Document LC/8/B/7).

8.50 At paragraph 4.4 of the Planning Application Support Statement for the present proposal (Document CD2/4), the applicants rightly advise that the RCF no longer represents the most suitable technology having regard to the JMWMS. The applicants accept that an amendment to the RCF planning permission would be likely before its implementation and point out that they have been waiting, along with others in the industry, for ECC to award a long term contract for MSW. Moreover, there is no evidence of detailed marketing or negotiations with a waste operator – the letters produced by the applicants show no more than a general intention. In addition there is no evidence demonstrating the viability of the RCF for C&I waste only.

8.51 To date, no real steps have been taken to implement the RCF permission. The applicants would not operate the RCF but would look for a partner waste organisation. It is not evident that a partner has yet been identified, let alone terms agreed with one.

Policy Implications

The Development Plan

8.52 The three most relevant components of the Development Plan (DP) are the Southend & Essex Waste Local Plan (WLP), the East of England Plan (EEP) and the Braintree and District local Plan Review (BDLPR). All contain relevant policies.

8.53 The WLP whilst adopted in 2001 is still broadly consistent with the subsequent PPS10. It adopts, for example, the waste hierarchy (see Policy W3A) and identifies certain sites for waste management facilities. The WLP proposes a site specific approach which is promoted in PPS10. The WLP should be given significant weight. The application site was specifically considered in the preparation of the WLP and whilst identified as a preferred site, limitations on both the size of the site and the extent of building coverage were imposed. This proposal is not restricted to the allocated site and the building footprint greatly exceeds that approved. Moreover, a paper pulp facility was not envisaged by the WLP at all. The proposal does not therefore accord with the WLP.

8.54 Notwithstanding this, the WLP was developed at time when WPAs were less confident about the community’s ability to achieve and sustain high levels of recycling and composting. There have been considerable improvements in recycling and composting performance since then. The WLP was cautious in its approach,

seeking to ensure that it delivered a sufficient number of sites that could accommodate the larger waste management facilities that were expected. The eRCF proposals involve a building whose footprint alone exceeds the size of the allocated site.

8.55 There are also clear breaches of the BDLPR with regard to policies 27, 78 and 88. These relate to the location of employment, protection of the countryside, and loss of best and most versatile agricultural land. The application site includes over 11ha of Grade 3a agricultural land which would be lost as a consequence of the proposal. These breaches all militate against this proposal.

8.56 The EEP provides an overall vision and objectives largely in line with PPS10. Whilst it seeks to ensure timely provision of facilities required for recovery and disposal etc of waste, it requires, like PPS10, a balancing exercise to be undertaken in order to minimise for example the environmental impact of such facilities. On balance the application proposal does not comply with policy WM1.

8.57 Overall, the proposal is not in accordance with the development plan.

PPSs 7, 10 and PPG 13

8.58 For the reasons explained above, the proposal is not PPS7 or PPG13 compliant. With regard to PPS10, it is acknowledged that it provides some support for additional waste treatment facilities. However, this should not be at any cost. The proposal is not fully compliant with PPS10 because: -

- (i) there is either no, or certainly not a full need for a facility of this scale;
- (ii) it would not contribute positively to the character and quality of the area;
- (iii) it would result in significant visual intrusion;
- (iv) the traffic generated would be unacceptable especially on the A120;
- (v) the scheme does not reflect the concerns or the interests of the local community;
- (vi) it conflicts with other land use policies (e.g. policies that seek to protect agricultural land and policies aimed at the protection of the countryside).

PPS1 Design Paragraphs 33-39

8.59 The Defra Guidance on the design of waste facilities referred to above (Document CD/8/9) indicates that in most cases even medium sized waste facilities will not be effectively screened by landscaping and bunds. Because of its size, this proposal is not accepted or welcomed by the community. PPS1 emphasises the need for development to take the opportunities available for improving the character of the area and the way in which it functions. This proposal does not comply with PPS1.

8.60 The introduction of such a substantial building for industrial purposes; the additional HGV movements that would be generated; and the associated noise, light and general activity that would arise, would combine to create an unacceptable impact on the character of the area.

SECTION 9 - THE CASE FOR THE COMMUNITY GROUP

9.1 The Community Group (CG) has sought to compliment the evidence of the Local Councils Group. It is beyond the resources of local volunteers to challenge the complex and wide ranging evidence regarding the need for, or the viability of, a large scale waste management installation. The evidence of the CG therefore concentrated on the matters of concern to local people where it was considered feasible to bring forward additional material.

The impact on the character of the landscape and heritage features

9.2 The surroundings of the site are predominantly rural. The aerial photographs (such as that at Document CG/1/B Appendix C) and the range of ground level photographs (in particular those at Documents CG/2/B appendix 1 and CG/1/B appendix E) demonstrate its rural character. It is accepted that it is not "pristine" countryside. The remnants of the airfield, the commercial and industrial uses in the vicinity, the sand and gravel workings and the towers are evident. However, when examined at a sensible scale, and not focusing on the area restricted to the site of the 6ha building and its immediate vicinity, these proposals clearly relate to a site in open countryside, dominated by large arable fields with woodland. The existing commercial and industrial uses occupy a very small proportion of the surrounding area. They are contained within defensible curtilages and do not detract from the open and rural character of the area. The applicants' description of the site as being "despoiled" is incorrect.

9.3 The nearby mineral workings are temporary; they have 12 years to run and the restoration is on-going as the reserves are dug. The relatively transient impact of the workings ought not to be given great weight. Because of the topography – the site is on a boulder clay plateau – there are many opportunities for long distance views in the area. For example, the existing hanger on the application site can be seen from a kilometre away to the west, namely from the edge of Silver End. The surrounding area and Woodhouse Farm are accessed by local people via the public right of way network, which is well used.

9.4 The evidence of the CG and of third parties shows that this is valued countryside. It forms the rural setting of Kelvedon, Coggeshall, Silver End and Bradwell and is enjoyed by local residents. Some have houses looking over the site. Many more experience it using the local roads and footpaths. It has ecology of local interest. Its biodiversity is rich. The ecological survey shows four bat species, great crested newts and brown hares, resident on and around the site. Notwithstanding the mineral working and the industrial/commercial activity, the area is identified by the CPRE as relatively tranquil, including having dark night time skies (see Document CG/1/B Appendix D). A national tranquillity map has been published which identifies the relative level of tranquillity in each 500 metre square in England. A place where tranquillity is most likely to be felt is represented in green on the map. The application site lies within an area shown as green on the map. In a report published by CPRE and the former Countryside Agency in 1995, tranquil areas were defined as 'places which are sufficiently far away from the visual or noise intrusion of development or traffic to be considered unspoilt by urban influences'.

9.5 The most detailed published landscape assessment in the applicants' evidence is the extract from 'Braintree, Brentwood, Chelmsford, Maldon and Uttlesford Landscape Character Assessments' prepared by Chris Blandford Associates and published in 2006 (Document GF/5/B (4)). Under the heading "Silver End Farmland Plateau" it indicates that "away from the main roads, that lie adjacent to the character area, and the sand and gravel pit, most of the area is tranquil." It is recorded that: "Overall, this character area has moderate to high sensitivity to change." The CG has sought to illustrate the detail of the existing landscape in its evidence. The photographs in CG/2/B appendix 1 are particularly useful because they were taken in January with bare deciduous trees. The winter visibility of the existing hanger can be compared with the autumn position. The CG was concerned at the time of preparing its evidence (before the ECC Committee Meeting of 24th April 2009) that the applicants' original illustrations of existing trees in the application drawings were inaccurate and that accordingly assessments of visual impact were understated.

9.6 A description of the listed buildings in the vicinity of the site and of the conservation area of Silver End is given in Document CG/4/1. Silver End was a model village created by the Crittall Company. As an important collection of Modern Movement buildings the village was designated as a conservation area in 1983 with a later Article 4 Direction to safeguard the character and appearance of the area, and the individual houses. The village contains a number of listed buildings, notably three managers' houses, one of which is known as Wolverton. It is visible across open countryside to the north east, and the application site is visible from it. Whilst much of the rest of the perimeter of the village is wooded, the flat plateau landscape results in a strong visual connection between the village and the application site.

9.7 Woodhouse Farm was listed Grade II in 1988. The farmhouse is of early 17th century origin with later additions. It has an oak frame and queen post roof, with hand made clay tiles. The building is in a poor state of repair and has been on the Buildings at Risk register, with its condition described as 'very bad', since 1987. There can be difficulties associated with the issuing of a repair notice and it is not necessarily the best course of action to achieve the preservation of a building. However, the neglect of Woodhouse Farm has continued for too long, and urgent repairs are necessary. It should be feasible for some repair work to be undertaken without awaiting the commencement of full refurbishment of this group of buildings. There is no schedule of immediate remedial works to secure the survival of the group of buildings. A nearby pump is also listed and an ancillary building to the rear, described as a bake house, brewhouse and stable is also listed Grade II. Lack of maintenance has led to the total collapse of the roof. The setting of the historic farmsteads on and around the application site relies on their relationship to the landscape, which can be affected by the introduction of alien elements such as chimneys or flues.

9.8 The setting of the listed buildings and the conservation area should not be narrowly defined. Paragraph 4.14 of PPG15 states that 'Section 72 of the Act requires that special attention shall be paid in the exercise of planning functions to the desirability of preserving or enhancing the character or appearance of a conservation area. This should also, in the SoS's view, be a material consideration in the planning authority's handling of development proposals which are outside the conservation area, but would affect its setting, or views into or out of the area.'

9.9 The applicants propose that the Woodhouse Farm complex be converted to an education centre. However, no listed building application has been submitted, and so it is not clear whether such proposals would secure the retention and restoration of the historic features of the buildings. Floor loading and fire regulation requirements could make this an inappropriate use of the buildings. Car parking, access and landscaping works could damage the immediate setting of the historic buildings. Woodhouse Farm is close to the proposed waste management facility. At present the westerly view from the farmhouse is of trees and the end of the existing hangar. This would be replaced by the roofs of the proposed IWMF and the chimney towering above. From this distance there would be noise, disturbance and possibly odour. Overall the setting of the historic farmstead would be completely transformed.

9.10 The setting of Woodhouse Farm is of most concern, but given the open landscape and the length of views this permits, other settings would be affected. The Silver End Conservation Area and the listed building known as Wolverton have already been referred to. In addition, Allshot's Farm is about 400m from the application site and would therefore be close to the IWMF. The damage already caused to the setting of the listed building at Allshot's Farm by the existing scrapyards would be exacerbated by the close view of the proposed chimney.

9.11 Herons Farm is some 900 metres from the site of the proposed chimney. Although not a listed building, Herons Farm is one of the historic farmsteads on the plateau. Existing views of blocks of woodland from this farm would have the addition of the proposed chimney stack and the roofs of the IWMF. The impact at Haywards Farm, another historic farmstead, would be similar.

9.12 Porters Farm and Rooks Hall are listed buildings situated about 1.4km and 1.8km respectively to the southeast of the application site. Parkgate Farm lies about 1.1 km to the south of the application site. Although not a listed building, it is one of the historic farmstead groups in the area. The proposed chimney at the IWMF would be visible from all three locations.

9.13 Sheepcotes Farm is a listed building sited about 600m west of the proposed IWMF. At present there is tall conifer planting at the rear of the plot which screens the farm buildings from the airfield. However, if this were removed, the proposed chimney and roofs of the IWMF would be visible at a close distance. Goslings Farm is a listed building sited about 1km to the northwest of the proposed IWMF, with no intervening woodland.

9.14 PPG15 makes it clear that the whole historic environment, not just the immediate settings of historic buildings and conservation areas, needs appreciation and protection. The proposed stack and roofs of the IWMF would be visible from many historic buildings, sometimes in an overpowering way. This would compromise the relationship between the historic buildings and their landscape setting. The historic environment would be further eroded by the increased number of HGV movements that would take place on the A120.

Traffic

9.15 Mr. Nee's evidence, at Document CG /3/A, emphasises the concerns of local people with regard to the existing congested state of the highway network, in particular the A120 and A12 Trunk Roads. The A120, from which access is to be

taken, is operating above its design capacity and there are frequent queues. Examples of congestion incidents are given in the document. The section of this road between Braintree and Colchester is single carriageway and the Highways Agency announced in July 2009 that plans to re-route this section of the highway have been dropped. It is likely to be many years before this length of the A120 is significantly improved.

9.16 The junction of the A12 and A120 at Marks Tey is listed as having high levels of NO_x at present. It is one of 18 air quality hot spots in the county. The additional HGV movements associated with the IWMF would exacerbate this situation.

9.17 There is particular concern about the likelihood of HGV traffic using local roads to gain access to the site when the primary routes are heavily congested or blocked. HGV traffic would divert through local villages such as Kelvedon and Feering under such circumstances. The onus would be on local villagers to police the HGV movements. It is inevitable that some HGV drivers would attempt to access the site via local roads through villages. For example the natural route from Witham would be the roads towards Braintree via Cressing (B1018) or through Rivenhall and Silver End.

9.18 A number of road accidents have taken place in the vicinity of the proposed access as indicated in Document CG/3/A. One serious accident took place at the junction of the site access road and Church Lane; several others have taken place on a 650m length the A120, in the vicinity of the access road junction. The proposed development would result in a significant increase in the number of HGVs using the access road and the nearby sections of the A120.

9.19 The EEP encourages modes of transport other than by road for the transport of waste. The only type of access envisaged for the application proposal is by means of road transport.

The eRCF, the permitted RCF and the allocation for waste management, WM1, in The Waste Local Plan

9.20 The proposal is for a very large scale waste management facility in the countryside, involving the loss of 1.6 ha of woodland and the sinking of its 6ha built form, to its eaves, into the ground. It is accepted that the principle of a waste management facility, on a relatively modest 6 ha site, incorporating the existing hanger, was established in the WLP. It is also acknowledged that permission was granted by ECC for the RCF in February 2009. It is therefore important to consider the differences between the RCF and the eRCF.

9.21 The eRCF would have a larger footprint and there would be differences in the details of construction and amount of excavation necessary. However, the critical difference between the two schemes is the incorporation of the CHP plant in conjunction with the waste paper processing. This would necessitate a chimney stack of a diameter of 7m and at least 35m in height above existing ground level, with the possibility that the EA may require a larger chimney, as a result of the EP process, than is envisaged by the applicants.

9.22 On this point, the response of the EA to the consultation on the Addendum Environmental Statement is of concern. The EA appears to cast doubt on the

acceptability of a 35m stack in meeting the requirements to protect the local environment. The Agency refers to recent permits for plants with "significantly smaller" waste throughputs yet having stacks of 75m and 65m i.e. around double the height of the stack proposed by the applicants at Rivenhall Airfield. As indicated in Document CD/16/2, this raises a number of issues:

i. Why did the applicants not engage at an earlier stage with the EA, at least to establish the likely range of stack heights required?

ii. The reliability of the applicants' evidence in respect of emissions modelling and stack height. The EA letter casts doubt on whether a 35m stack would be Best Available Technology in respect of a number of issues. The ground level emissions take up too much headroom between ambient and total pollution levels. It is not enough to demonstrate that levels do not exceed legal maxima; air quality should be protected, especially where it is already good. Moreover, the EA questions the high exit flue temperature of 150 deg C and consider that this raises issues about the efficiency of the proposed re-use of heat within the plant. This could have an impact on the required stack height, as a more efficient use of heat would reduce exit temperature, and thereby reduce the buoyancy of the plume with a resulting need for a higher stack.

iii. How a recommendation to the SoS could encompass such a wide disparity between the applicants' position on stack height and that of the statutory regulatory body, the EA.

iv. The greater intrusion on the rural landscape that would be caused by a stack height of the order suggested by the EA, together with the likely increased visibility from conservation areas, listed buildings and footpaths.

v. The possibility that a grant of planning permission for the eRCF could not be implemented without a further application to ECC for a much higher chimney, when the issue of the chimney height had been a key planning issue at the Inquiry

The visual impact of the chimney on the landscape

9.23 The applicants accept that the chimney stack would be a noticeable addition to the landscape and that it would be visible from an extensive area, although they argue that the change to landscape character would be localized. However, there is a clear distinction between the solid chimney proposed and the lattice structure of the existing tower. Moreover, the chimney would draw the eye to the long, low building of the proposed IWMF, as can be seen in the montage at Document GF/5/D/2 – the view east from Sheepcotes Lane near Wolverton.

9.24 The applicants also accept that the perceived visual envelope of the development would extend over a considerable distance. However, the CG does not agree with the applicants' submission that "the chimney would be visible but only as a small element of the overall view and would not give rise to unacceptable levels of visual impact". The applicants' landscape witness focused on the impacts on a limited number of residential properties. The concerns of the CG are wider, going to the impact on all of those travelling across and enjoying the surrounding countryside.

9.25 The impact of the stack is illustrated in the visualisations at CG/2/B (appendix 1) and the related comments. Some of the applicants' montages, particularly the appearance of the proposed stack and the screening effect of trees, are not accurate representations of the proposal. The stack would be more prominent than shown, and many of the existing trees are shown unrealistically high. The differences between the applicants and the CG as to the extent of the visibility of the site have narrowed as evidence has been prepared. The CG's visualisations are similar to the applicants' montages at Document GF/5/D /6 (from Footpath 8 near Polish Camp) and Document GF /5/B/16 (from Woodhouse Farm Garden).

9.26 The chimney would be visually harmful because it would convey an emphatic large scale industrial image, which would be something alien to this rural location. However carefully the chimney was finished, whether mirrored or otherwise, it would be perceived in this way. It is very doubtful that the light cloud reflective effect in the applicants' montages would be seen for long periods. The applicants acknowledge that it would subject to both aspect and weather conditions. The damaging impact on the setting of the listed buildings and the Silver End Conservation Area follows from the above. The settings are part of the overall rural landscape and would be compromised by this very visible element of industrial character.

Other impacts

9.27 There is concern about the loss of woodland that would occur and the ecological impact of the development. The estimated period for the maturing of new habitats is very considerable. The applicants' ecological evidence indicates a 40 year medium term, and 80 years long term, requirement for woodland growth. In addition there is doubt as to the protection which could be given to the retained woodland on the edge of the excavation, given the depth and sheer sides of the proposed excavation.

9.28 The traffic/highway impact is put forward as being the same for the eRCF as the RCF, namely 202 HGVs in and 202 out, all via A120 existing access. A condition is proposed to ensure this. Both this safeguard and the HGV routeing scheme in the S106 agreement are essential.

9.29 The effect of artificial light at night is also of concern. Light pollution must be minimized, given the existing character of this area. There is a doubt as to how shift changes and other movement during the hours of darkness could take place without light escape.

9.30 The local community is worried about the impact of emissions and the potential risk to health. It is accepted that given the policy position in PPS 10 these matters would have to be further addressed by the EA in the consideration of the EP.

Matters raised by the Secretary of State and the Inspector

9.31 The above factors give rise to the following conclusions:

- The eRCF proposal is not in accord with the WLP 2001, because of its scale and the fact that it is much greater in extent than the Policy WM1 allocation. There is also conflict with the provisions of the EEP 2008, Section 8, and Policy ENV2 because

of the harm which would be caused by the visual intrusion of the chimney stack in the landscape. As a result of its height, this essential element of the eRCF would have an impact which could not be successfully mitigated.

- The incorporation of the chimney and its adverse impact on the landscape is in conflict with the aim of PPS 1, para.34 – it would be inappropriate in its context and harmful to the character and quality of the area.
- Similarly, the proposal is in conflict with Key Principles (iv) and (vi) of PPS 7 because of the harm that would be caused to the character of the countryside by the scale of the chimney.
- Visual intrusion is one of the locational factors in Annex E of PPS 10 – considerations include the setting of the proposed location.
- The setting of listed buildings in the vicinity of the site would be harmed by the visual intrusion of the chimney. The same harm would be caused to the setting of the Silver End Conservation Area on its eastern side. PPS 10, Annex E(e), PPG 15, and the LB&CA Act 1990 s.66 require that these factors are taken into account.
- The intrusive effect of the chimney would be readily perceived by users of the local footpath network. The degree of access to the countryside in this area afforded by the public rights of way is a significant factor in weighing the impact.

SECTION 10 - THE CASES FOR OTHER PARTIES AND INDIVIDUALS

1. Saffron Walden Friends of the Earth (SWFOE)

10.1 The case for SWFOE can be found at Documents OP/1 and OP/2.

10.2 The RCF proposal did not meet all the requirements of Defra's Waste Strategy for England (WSE) 2007, but the proposal was flexible and could have been modified. It was proportionate to the needs of Essex and provided an opportunity to deal with some C&I waste. WSE 2007 stipulates the need for flexibility. Waste disposal technology has changed and will change in the future. The achievement of recycling targets will change the amount and constitution of residual waste.

10.3 In contrast to the RCF, the proposed eRCF is excessive. It would provide facilities for the treatment of 850,000 tpa of waste, which is over 300,000 tonnes more than the total household waste arisings in Essex in 2007/8 (JMWMS Document CD/8/2). The proposal includes an incinerator.

10.4 Incinerators have to work within a tight schedule of feedstuff loads for safety and efficiency reasons. Changes in the MBT processes at Basildon or Rivenhall could result in lower tonnages of SRF than anticipated. There could also be pressure to retain plastic in the SRF to maintain bulk and calorific value. This would increase the fossil derived fuel carbon dioxide, with implications for carbon emission balances. The pressures for a regular supply of feedstock for the incinerator would have an impact on decisions taken with regard to the MBT processes. It is likely to encourage the production of more SRF at the eRCF, which could only be achieved by reducing

the amount of recycling and composting that would otherwise be achieved. As incinerators normally have a 25 year life span and require a constant supply of fuel, the whole system would be very inflexible. This is contrary to the flexibility required by WSE 2007.

10.5 The fundamental difference between the two schemes is the introduction of the paper pulping plant (MDIP) for the treatment of 360,000tpa of paper. Such plants are high users of electricity and heat. The MDIP operation would be an industrial process and could not be regarded as a recycling operation. As such it would be in contravention of the Braintree District Local Plan Review. Such a proposal should be subject to a separate application and EIA, which would consider the appropriateness of the choice of site for such a development, especially in relation to transport. It is likely that the waste paper would be sourced from many areas in the UK. Moreover, the A120 is already congested at Marks Tey. The manipulation of lorry loads to produce the same number of HGV movements for the eRCF as predicted for the RCF could prejudice the success of the MDIP. The complications of lorry journeys could make it more difficult for the facility to compete in the market.

10.6 The production requirements of the MDIP dictate the nature and size of the waste disposal facilities rather than the aims of the Essex Waste Strategy. Policy WM3 of the RSS requires local authorities to reduce the amount of imported waste. Imported waste should only be allowed if new specialist waste facilities requiring a wide catchment area would bring a clear benefit to the Region. As only 10% of paper waste is likely to be high grade, the provision of a specialist recycling facility is unlikely to provide a significant benefit to either Essex or the Region. Out of an intended intake of 360,000tpa high grade paper, only 29,000tpa would be from local waste supplies.

10.7 The MDIP would require water over and above that obtained from recycling and rainwater collection. Water abstraction could have an impact on the River Blackwater. A water study should have been undertaken to assess the impact of water requirements.

10.8 An incinerator or a CHP produces more CO₂ per tonne of waste than an AD. Notwithstanding this, the situation is complicated by the recommendation of the International Committee on Climate Change that biogenic CO₂ should not be taken into account as it has already been sequestered in the growing plant and the overall balance is neutral. This convention has been utilised in the WRATE assessment process. However, this is incorrect as biogenic CO₂ should be included in carbon emission calculations for a number of reasons; the most obvious being that it is still CO₂ contributing to climate change whereas sequestered carbon remains truly neutral. The WRATE model therefore dramatically underestimates greenhouse gas production. In the context of the waste hierarchy, the production of biogenic CO₂ is regarded as recovery and the energy created is part of the recycled energy target, which also qualifies as saving of the CO₂ created by the average national power station in producing the same amount of electricity. The CO₂ savings from surplus energy supplied to the national grid would depend upon the content of the SRF to be burnt. Predictions can only be approximate and the savings would probably be near to neutral, whereas with AD all electricity /heat generated would be recovery.

10.9 Under the 2006 Waste Framework Directive (WFD), which is currently applicable, and relevant case law, incineration is correctly classified as disposal rather than recovery, unless it can satisfy a number of tests. The combustion of the waste must fulfil a useful function as a means of generating energy and such combustion must replace a source of primary energy, which would otherwise have been used to fulfil that function. This is not the case in the eRCF proposal. Energy production would be a by-product of waste disposal.

10.10 The 2008 WFD will reclassify certain forms of incineration as recovery, rather than disposal, subject to the organic content of the waste and the efficiency of the incinerator (Extract from Consultation Document is included in Inquiry Document OP/2). The R1 test relates only to incineration facilities dedicated to the processing of MSW. It is doubtful whether the eRCF would meet these standards and the scheme would therefore be at the bottom of the waste hierarchy. Even if the incineration element of the eRCF could be classified as recovery, it would reduce the level of recycling and therefore run counter to the objectives of the waste hierarchy. Research by the FOE shows that, in general, incineration and recycling are competitive rather than complementary – they compete for the same waste streams. The incineration element would therefore reduce pressure for recycling, yet in Essex there is a huge disparity between the best and worst performing districts in terms of recycling.

10.11 Defra's WSE 2007 encourages energy from waste (EfW) as part of its energy balance, and advocates anaerobic digestion (AD) for this purpose. Nowhere is incineration specifically encouraged in WSE 2007. The eRCF would reduce the level of AD that would otherwise be undertaken, by introducing incineration.

10.12 The proposal runs directly counter to the County's JMWMS. Incineration is not envisaged in the JMWMS, whereas AD is repeatedly advocated as ECC's preferred option. Incineration could be harmful to public health. The recent Health Protection Agency report on 'The Impact on Health of Emissions to Air from Municipal Waste Incinerators' admits that 'although no absolute assurance of a zero effect on public health can be provided the additional burden on the health of the local population is likely to be very small'. The most difficult problem to assess is that of deposition of long lasting dioxins and furans into soil and onto crops and grass and thence into the food chain. In the early 1990s inadequately monitored mass burn incinerators created a serious problem by contaminating fish, milk, chicken and eggs, leading to a situation in some areas where babies were absorbing more than the safe level from mothers' milk. These incinerators have now been closed. Future levels depend entirely on operators maintaining good practices and carrying out regular monitoring, together with regular testing of background levels in the food chain by the public agencies responsible.

10.13 Dioxins cannot easily be continuously monitored. Escapes could occur between monitoring sessions. In relation to air quality, some continuous background modelling would provide a baseline. NO_x assessments should have been included in the air quality assessment as it can have effects on vegetation and could therefore be an issue with County Wildlife Sites and agricultural land being at risk. No predictions have been provided for PM_{2.5}. A limit value of 25µgms/m³ for PM_{2.5} is likely to be introduced into the EU Air Quality Directive before 2015. Traffic emissions should also have been added to the predictions. Air standards legislation should have been the definitive requirement, rather than DMRB guidance.

10.14 The predicted levels of arsenic cannot be ignored and the matter cannot be left to a planning condition limiting emission levels to below the EAL. The modelling undertaken by the applicants may have been conservative, but arsenic is a carcinogen and so could be regarded as having no safe threshold limit.

10.15 When other satisfactory and safe methods of disposal are available, such as AD, then it is wrong to choose any alternative methods that pose serious health risks unless rigorously controlled. It is also noteworthy that SRFs can contain plastics and incineration of such material cannot be considered a recovery.

2. Colchester and North East Essex Friends of the Earth (CNEEFOE)

10.16 The case for CNEEFOE can be found at Documents OP/6.

10.17 There is a long history of opposition to incineration in Essex. There is no need for such major facilities at Rivenhall. An incinerator for SRF would destroy valuable materials, increase pollution, and emit gases that would contribute to climate change. High recycling rates together with local composting would be less costly than a strategy of large centralised facilities involving incineration and long term contracts. Moreover, there is ample landfill capacity in the County.

10.18 Recycling is better than incineration and landfilling from a climate change point of view. Burning SRF is particularly polluting. A number of incinerator projects have proved to be costly disasters.

10.19 The site and access routes are not suitable to accommodate such a large industrial plant with the associated hundreds of additional HGV movements that it would generate. The proposed eRCF on the site would be harmful to wildlife, the rural landscape and the historic heritage of the area.

10.20 The paper pulping plant would be better sited adjacent to a plant making recycled paper, or at least near the coast or adjacent to a rail line where alternative means of transport could be employed.

10.21 AD plants should be sited near sources of food and agricultural waste. They should be local facilities rather than centralised plants. It would be far more efficient to use the biogas from an AD plant to heat homes, rather than to produce electricity.

10.22 Recyclables should be collected separately and sorted at the kerbside for local baling, rather than waste being mixed and having to be sent to an MRF. Materials become contaminated and degraded when mixed, and a centralised MRF would use far more energy than a system where separated waste is collected at the kerbside. Clean separately collected recyclables command higher prices than materials recovered by means of an MRF.

10.23 The proposal would inhibit the rapidly increasing recycling and composting rates that are taking place in Essex. Colchester has the highest usage of home compost bins in the UK. The amount of municipal waste collected by Councils in England has been decreasing over the last few years.

10.24 There is a need for flexibility in dealing with waste over the next decade. No long term contracts should be entered into. As indicated in Document OP/6 Appendix 7, such contracts would limit the ability to increase recycling and prevent new technologies being adopted.

10.25 The appeal proposal would shred and burn a valuable resource, thereby causing environmental damage and restricting opportunities to reduce the production of gases which contribute to climate change.

3. Mr Stewart Davis – Kelvedon Resident

10.26 Mr Davis' submission can be found at Document OP/3. He points out that the A120/A12 route is already congested, and even if HGVs visiting the site were scheduled to avoid peak times, the periods of congestion during the day would be expanded.

10.27 Congestion would motivate drivers to seek other routes, which are unsuitable for HGV traffic. It would be impractical to enforce a contracted route, as this would require monitoring all vehicle trips.

10.28 The high quality pulp produced at the MDIP would have to be delivered in an uncontaminated state to paper mills. This would require the use of clean vehicles. Waste delivery vehicles may not be suitable, thereby resulting in more journeys than currently predicted by the applicants.

10.29 The need for the MDIP is questionable. A number of paper mills in the UK have closed recently because of over capacity in the market. Paper consumption is going down. The de-inking and remaking of paper uses more energy than making paper from new pulp obtained from sustainable forests.

10.30 The applicants have referred to obtaining waste from outside Essex. Where would it stop? Waste could be imported from anywhere with the result that roads would become more and more congested.

4. Mrs Eleanor Davis – Kelvedon Resident

10.31 Mrs Davis' submission can be found at Document OP/4. She considers that the road network is inadequate to serve the development. Roads in the area are busy and frequently congested. Either the road network should be improved, or preferably waste should be delivered to such a site by rail.

10.32 There is no overriding need for an incinerator. Any need would decline over the next few years as efforts to reduce our carbon footprint result in reduced waste arisings and increased recycling.

10.33 The eRCF would be a blot on the landscape and would create undesirable emissions. The incinerator would attract waste from a wide area.

5. Mr Robert Gordon – Silver End Resident

10.34 Mr Gordon lives in Silver End, 1km from the site of the proposed eRCF. He is concerned that noise and odour generated by the development would have a harmful

effect on the local population and on wildlife. The site is unique. It is a plateau inhabited by hares, skylarks and many other species. All would be at risk. A screening hedge would be of little use.

10.35 The impact of 400 HGV movements per day would be severe. Local roads would be affected, as the routing proposals would be subject to abuse.

10.36 The owner of the land has not recognised the significance of the site as an airfield used by the USAF and RAF.

6. Mrs Kate Ashton – Rivenhall Resident

10.37 Mrs Ashton's evidence, and appendices, can be found at Document OP/5.

10.38 The roads between Kelvedon, Rivenhall and Silver End are not suitable to accommodate an increase in HGV traffic. They are winding and narrow. In places they are not wide enough to allow HGVs to pass one another. HGVs using the local road network would harm the character of the countryside and be extremely detrimental to highway safety. There can be no guarantee that all HGVs associated with the proposed development would follow the defined access route.

10.39 In addition, there is potential for further mineral development in the area. If this and the eRCF development were to take place, an industrial landscape would be created and the character of the countryside would be destroyed. Such a combination of development would result in more than 1000 additional HGV movements on the A120. This would cause such serious congestion that lorries would be forced to use the local road network.

10.40 It was originally proposed that a waste treatment plant at Rivenhall Airfield would deal with local waste. However, the proposal has grown to an extent that it would be a major industrial development that would deal with waste from as far afield as the East Midlands. The complex would so large that it would ruin the rural character of the area. The proposed chimney stack would be seen for miles.

10.41 There can be no guarantee that emissions would not cause harm to human health or wildlife. The development has the potential to produce odours and bio-aerosols. Mrs Ashton's husband and son both suffer from asthma, and this would undoubtedly be exacerbated by any emissions.

10.42 Waste recycling figures in Braintree District Council are well ahead of targets. Waste management in the future should be undertaken within each district, and not on a vast centralised basis which increases the need for transport and environmental impacts.

6. Mr Brian Saville

10.43 Mr Saville lives at Herons Farm, which overlooks the application site. His family have lived there for generations. He regularly uses Church Road and is concerned about road safety at the access road junctions with Church Road and Ash Lane. On three occasions last year, vehicles came out of the Quarry access road immediately in front of his car, whilst he was travelling along Church Road. The access road is used as a 'rat run' when congestion occurs on the A120. There have

been two major accidents in the past, one at the Church Road junction and the other at the Ash Lane junction.

10.44 At present the access road carries about 200 to 300 vehicles per day. Adding a further 400 HGV movements would result in extremely dangerous conditions for road users. Many HGVs slow down, but do not stop at the junction. The proposal to trim existing hedges and replace signs would have little impact on road safety.

7. Ms Felicity Mawson - Witham Resident

10.45 Ms Mawson's statement can be found at Document OP/7. She is concerned that the future generation would have to suffer the 'blot on the landscape' that would be created by the development of the eRCF. The countryside would be despoiled.

10.46 HGVs would be likely to use the local road network, as the A12 road is already busy and congested. This would cause additional noise, vibration and reduced air quality from exhaust fumes. Local people's health and quality of life would be compromised.

10.47 Ms Mawson is also concerned about the consequences of potential accidents and the release of pollutants at the plant. Such a large plant would concentrate the various risks in one place.

SECTION 11 - WRITTEN REPRESENTATIONS

11.1 The application has been subject to three consultation periods; the first following the submission of the original application and ES, the second following the submission of the Regulation 19 additional information, and the third following the submission of the addendum to the ES. The responses to the first two consultation periods are summarised in the report to the ECC Development and Regulation Committee (Section 6 of Document CD/2/12A). Amongst other things these indicate that the East of England Development Agency broadly supports the application; the Highways Agency was satisfied that the proposal would not have an adverse effect on the A120 Trunk road, and the Environment Agency (EA) indicated that it had no objection subject to a number of comments. The EA pointed out that various mitigation measures should be undertaken and that an Environmental Permit would have to be obtained which would require the applicants to demonstrate that a high level of protection of the environment would be achieved. The Primary Care trust also had no objection, subject to certain mitigation measures being implemented in relation to air quality and road safety.

11.2 The Highway Authority did not object to the proposals subject to a number of highway improvements being secured by means of condition or legal agreement. Natural England (NE) also had no objection, provided proposed mitigation measures are undertaken. NE considered that the proposed ecological management plan would have a long term positive impact on ecological assets. However, Essex Wildlife Trust objected to the proposals on a number of grounds, including the proposed loss of 50m of species rich hedgerow, the loss of 1.6ha of woodland and resulting disturbance to the remaining area, and the loss of 19.1ha of open habitats. The Ramblers' Association also objected to the scheme pointing out that the airfield is on an elevated site which provides commanding views in all directions. The Association considers that the site has many of the characteristics of a greenfield site. It argues

that noise, dust, and traffic would be a nuisance for nearby residents and users of the local rights of way network. Written objections were also made by Braintree DC, a number of Parish Councils and the CPRE Essex. The objections from these bodies were expanded upon and explained by witnesses at the inquiry and are set out in preceding sections of this report.

11.3 In addition to the consultation responses, ECC received representations from 820 individuals and organisations, the vast majority objecting to the proposals. These can be found at Document 3. A summary of the representations is set out in Appendix F of Document CD/2/12/A. Amongst other things, objectors submit that there is no overriding need for the development and that such development is contrary to prevailing planning policy, in terms of national guidance and the development plan. Moreover, it is argued that the site and proposed development are far larger than that set out in the WLP and are excessive in terms of the needs of North Essex. The proposal is in breach of the proximity principle and would result in inappropriate industrial development in the countryside. There is concern that waste would be imported from outside Essex. Objectors argue that such development should be located near the coast, away from human habitation, and close to infrastructure that would provide appropriate access.

11.4 It is also argued that development would blight the countryside. The scheme would be readily visible in the landscape and the proposed chimney stack would be very prominent and visible for miles. The proposed height of the stack is uncertain. The photomontages presented by the applicants are inaccurate. Moreover, they show trees in leaf and therefore suggest greater screening than would be available in winter. The long term viability of the remaining trees is in doubt because of the reduction in water that would be available. New planting would not be effective as a screen for 10 to 15 years. There would be a loss of good quality agricultural land.

11.5 There is also concern that the development would result in a loss of habitats, grassland and woodland. It would be detrimental to protected species. The proposal would be harmful to the Upper Blackwater Special Landscape Area (SLA) as the access road passes through the SLA.

11.6 Objectors submit that the development would discourage recycling. It is argued that waste management should be undertaken at a District level and that facilities such as the CHP cannot run economically without a guaranteed supply of combustible material.

11.7 In relation to traffic generation, it is submitted that the number of vehicles anticipated by the applicants is not realistic and the road network would not be able to cope with the increased traffic. The A12 and A120 are already congested at peak periods and when accidents occur. At such times, HGVs associated with the site would use the local road network. There has been no attempt to make use of other forms of transport. Moreover, the additional traffic would contravene Government guidelines on CO₂ emissions and carbon footprints.

11.8 Objectors consider that the proposals would cause problems of light pollution, litter, odour, dust, noise and disturbance, and would encourage vermin. This would be harmful to the living conditions of local residents.

11.9 There is also concern about the impact of emissions from the eRCF on human health, wildlife and the growing of crops. The proposal could result in contamination of ground and surface water. Moreover, there is a risk of accidents which could pose a hazard.

11.10 There would be a detrimental impact on listed buildings in the area. The setting of Woodhouse Farm would be affected by the proposed nearby chimney and the car park.

11.11 In addition to the representations submitted to ECC, consultation responses were sent the Planning Inspectorate on the Addendum to the ES. Moreover, more than 80 further written representations were submitted which can be found at Documents CD/15/1 to 7. Again, the vast majority of these representations are objections to the proposal. The representations reflect many of the arguments set out in the representations sent to ECC and point out that only one letter of support for the proposal was submitted. It is argued that the proposals are in conflict with national, regional and local planning policies and do not represent the Best Practical Environmental Option. The proposal is for a large scale industrial development in the countryside. It would be poorly located and harmful to the quiet rural character of the area and to wildlife and protected species. It would be inadequately screened and readily visible in the landscape.

11.12 The chimney stack would be a prominent and intrusive feature, which could not be disguised or blended into the colour of the sky. Moreover, there is no certainty that a 35m high chimney would be adequate. The planning application and Environmental Permit application should have been progressed together. Government guidance encourages certainty in the planning system and suggests that applicants should work with pollution control authorities. If it were eventually decided by the EA that a 40m or even 45m high stack was necessary, a further planning application would be required.

11.13 Objectors submit that the eRCF would cause light pollution in an area that is light sensitive. Furthermore it would create noise and disturbance, dust and odour, and attract vermin and seagulls. It would be harmful to the living conditions of local residents. It would result in the loss of Grade 3a agricultural land. Moreover, the development conflicts with the proximity principle and is entirely reliant on road transport. The anticipated HGV traffic figures are unreliable. The additional HGV traffic would exacerbate congestion and create safety problems, particularly on local roads and at the junctions of the access road with Church Road and Ash Lane. Congestion on the A120 is already a problem. On many days traffic travelling in an easterly direction is almost stationary from Marks Tey to past Coggeshall, and in a westerly direction from the Quarry access road to Braintree roundabout.

11.14 Again, it is argued that the proposal would create a risk to human health and the environment, and that the potential for the development to emit harmful gases and contaminate ground water has not been adequately assessed. The emissions of arsenic and lead would be close to legal limits. Lead levels could rise to more than 5 times the background levels. Furthermore, there has been a failure to predict or monitor NO_x changes, which can have a significant impact on vegetation. In addition, there is uncertainty over the wind direction data used by the applicants. The need for the development has not been justified and the development would discourage recycling. There is a need for flexibility in waste management in future

years. The eRCF proposal does not permit such flexibility. Moreover, it would result in waste being imported into Essex.

11.15 It is also submitted that the development would harm the setting of many listed buildings and the conservation area at Silver End. There is concern that the proposal would be detrimental to the historic value of the airfield.

11.16 Brooks Newmark MP, the local Member of Parliament, indicates that he is opposed to the construction of an incinerator at Rivenhall. He shares many of the concerns of local residents and considers that such development is neither in keeping with the needs of the local community nor the countryside.

11.17 Natural England (NE) confirms that it raised no objection to the application when initially consulted. It accepts the view expressed in the Addendum ES that the site comprises a range of habitats and that these suggest that the UK Biodiversity Action Plan Priority Habitat, Open Habitat Mosaics on Previously Developed Land is applicable. However, it appears to lack many of the key physical features commonly regarded as increasing biodiversity, and any areas of marginal or pioneer habitat are small and widely dispersed. NE agrees that ECC were justified in assigning only a limited level of significance to the site's Habitats Action Plan status under its PPS9 duties.

11.18 Jeremy Elden, Director of Glendale Power Ltd, indicates that the company has recently announced plans for a 30,000 tpa Anaerobic Digestion (AD) power station and associated CHP system in Halstead, some 8 miles (13 kms) from the application site (Document CD/15/5/B). The plant is intended to process segregated organic waste. An AD plant smaller than that proposed at Rivenhall has been chosen for a number of reasons. Firstly, it would meet a local need rather than a larger or regional need. Secondly, it would be linked to a district heating scheme. This is only economical for small generators, as the quantity of heat involved in larger generators would be too much to meet the requirements of users within a radius of about 500 metres, which is a feasible distance to carry heat by means of hot water. Thirdly, larger plants inevitably involve greater transport distances for materials which offsets any economies of scale.

11.19 Mr Elden points out that in Essex there two main sources of organic waste suitable for feedstock for an AD plant of the type contemplated by Glendale Power, namely municipal and C&I waste. The Essex Waste Partnership of local authorities together with Colchester BC anticipates a total of 88,000tpa of municipal demand. C&I quantities are harder to assess. One estimate based on population and total UK volumes, suggests a C&I feedstock availability in Essex of around 105,000 tpa. An alternative estimate based on the 2008 Regional Biowastes Study produced by Eunomia for the East of England Regional Assembly gives an estimate of 84,000 tpa C&I feedstocks within the county. Total feedstocks in the County are therefore around 170,000tpa of which about 30-40,000tpa are currently treated. Based on a transport cost versus plant size analysis, Glendale Power considers that the most economic size of AD plant has a capacity in the range of 30-45,000 tpa. In view of Glendale Power's proposal, the applicants are incorrect to suggest few, if any alternative waste processing facilities are likely to be developed in Essex apart from one or more major facilities at Basildon, Rivenhall or Stanway.

11.20 In a letter dated 13 October 2009 (CD/15/7), the Environment Agency (EA) comments on the Addendum to the ES, pointing out that it is concerned that “the proposed stack height of 35m may not provide the best level of protection for the local environment, in particular for short term means of SO₂ and NO₂ and long term means for several of the trace elements which have very low Environmental Assessment Levels (EALs)”. The EA draws attention to a number of EfW plants for which it has recently granted permits and which have stack heights considerably higher than that proposed for the application site, together with significantly smaller annual throughputs. The Agency provides further comments on the Addendum, notably pointing out that it is not acceptable for the applicants to simply state that EALs are predicted not to be breached. Best Available Technique (BAT) requires minimisation of any impact.

11.21 However, in a subsequent letter (Document CD/16/1) the EA seeks to highlight that it is not objecting to the eRCF, but wishes to make clear that a future environmental permit may contradict the requirements of a planning permission. If the stack height was restricted to 35 metres by a planning permission, there may be options other than an increased height of stack available to the applicants to ensure that the best level of protection is afforded to the local environment, such as more stringent emission limits, should this prove necessary. However, until a detailed assessment is conducted during the determination of a permit application, there can be no guarantee that the stack height proposed would represent the Best Available Techniques (BAT) to minimise the impact of the installation on the environment. The EA points out that the detailed comments made in the appendix of the letter dated 13 October 2009 were intended to identify specific areas where further work would be required to adequately demonstrate that BAT was being used to minimise the environmental impact.

11.22 Although reference was made in the letter dated 13 October to two other EfW plants with taller stacks, the EA points out that each case must be taken on its own merits and the necessary stack height would depend on site and installation specific characteristics. It cannot be inferred that a shorter stack would not be acceptable. However, limiting the stack height would reduce the options available to the applicants to ensure that air quality is satisfactorily protected.

11.23 Feering Parish Council (PC) is concerned about the impact of emissions from the plant and subsequent air pollution. It is also concerned about the detrimental impact of additional traffic that would be generated on the local road network, particularly when the A12 or A120 were closed. The PC submits that there should be a rail link provided to the site. It is also suggested that if planning permission were granted, a S106 agreement should be drawn up to provide a flood lagoon at Bradwell to relieve flooding problems in Coggeshall, Kelvedon and Feering.

SECTION 12 - CONDITIONS AND OBLIGATIONS

12.1 Document ECC/8 sets out the final version of the conditions suggested by ECC. The first column gives the original set of conditions which ECC intended to impose following its resolution to grant planning permission for the eRCF on 24 April 2009. The central column sets out the latest set of suggested conditions after discussions

with the applicants, together with the reasons for those conditions. The third column sets out, where applicable, comments by the applicants and ECC.

12.2 Turning to the list of conditions, ECC and the applicants submit that the nature of the development justifies a 5 year period for commencement of the development, with 30 days notification of commencement. These are considered to be realistic limits by the main parties.

12.3 The maximum number of HGV movements permitted in relation to the eRCF would be the same as that allowed by the extant permission for the RCF. No assessment has been made of the impact of a larger number of additional movements. The LCG considers that the condition would be difficult to enforce other than after the event of a breach. The applicants are satisfied that the number of HGV movements permitted by Condition 3 would be sufficient to allow the IWMF to operate efficiently. The number of HGV movements permitted on Sunday and Bank Holidays is not identified but would be limited to operations permitted by conditions 34 and 36. These conditions relate to temporary changes approved in writing by the WPA and the clearance of waste from Household Recycling Centres which again would be largely under the control of the WPA.

12.4 Condition 5 requires a daily record of HGV movements in and out of the site. In order to provide information that would assist in the monitoring of the traffic routing provisions set out in the S106 agreement (see paragraphs 12.21-22 below), it is suggested that Condition 5 should include a requirement to log the identity of the vehicle operator, the type and size of the vehicle, the vehicle registration number, and an indication of whether the vehicle is empty or loaded. The applicants query the necessity to record such movements as the condition is intended to help control vehicle movements.

12.5 The LCG would like to see a condition requiring the buildings at Woodhouse Farm to be brought into a good state of repair. The applicants could eventually claim that they have failed to achieve further planning consent and Listed Building Consent (LBC) for the Woodhouse Farm complex and no refurbishment would be undertaken. It is argued that to bring the building into a good state of repair would not necessarily require further planning permission and LBC. However, the applicants point out that the covenants of the S106 agreement require the developer to make application for beneficial re-use of the building and to use reasonable endeavours to reinstate and refurbish the farm complex. ECC points out that the works required to bring the buildings into a good state of repair are substantial and may well require LBC in any case.

12.6 Condition 16 requires provision of an artistic feature on or near the north elevation of the proposed IWMF. BDLPR Policy RLP94 indicates that the District Council will seek the promotion of public art or local crafts in the public realm and that major development will make provision for the commissioning of suitable and durable features. It is pointed out that the site could be seen from the public footpath network.

12.7 Condition 17 requires a management plan to be submitted to ensure that there is no visible plume from the stack. The applicants argue that this requirement overlaps with the environmental permitting regime. ECC submits that it is a planning

matter which the EA may not address. The LCG are concerned that the condition does not categorically state that there will be no plume.

12.8 In relation to Condition 21, the LCG points out that no parking areas have been shown on the plans for the parking of HGVs. In response, the applicants submit that there is no intention to provide any substantial parking for HGVs in the open air on the site.

12.9 The LCG considers that a condition should be imposed requiring electricity produced at the plant to go to the National Grid. However, the applicants point out that it is not entirely within their control that the electricity produced at the plant would be supplied to the National Grid.

12.10 In relation to Condition 28, ECC submits that SRF should only be sourced from elsewhere in the East of England for a period of one year from the date of agreement with the WPA. In contrast the applicants argue that the sourcing of such material should be permitted for a period of 5 years, as a period of only one year would lead to problems of uncertainty.

12.11 Turning to condition 30, ECC submits that the proposed condition allowing some paper waste from outside the region is reasonable because it takes account of the fact that the applicants may not initially be able to source 80% of the paper feed from within the region - it provides a mechanism for agreeing a larger proportion. The applicants argue that the MDIP would be a unique facility in the UK and that the condition is unreasonable. It would not be possible to immediately source 80% of the feedstock from within the region and the relaxation allowed under the condition would therefore be necessary at the outset. Moreover, Policy WM3 of the East of England Plan (Document CD/5/1) indicates allowance can be made for specialist processing or treatment facilities to deal with waste primarily from outside the region where there is a clear benefit. The principle of self sufficiency therefore does not apply in this respect. The applicants argue that a restriction limiting feedstock to within a radius by road of 150km, or to the 3 regions bounding the East of England would be more reasonable and practical. This would help to control the distance feedstocks were transported and thereby limit emissions resulting from the transport of waste. The modelling of the carbon benefits of the eRCF was predicated on an average travel distance of 100km per kg of waste.

12.12 However, ECC submits that even in the circumstances where an immediate relaxation is necessary, the suggested condition is reasonable, because the terms of the condition require ECC to authorise a greater proportion of imports. There are no circumstances where the condition would be unreasonable. At the same time, the condition ensures that the applicants have an incentive to seek feedstock from within the region, and that an initial inability to do so would not result in a total abandonment of the proximity and self sufficiency principle in the future. The figure of 20% is derived from the application. The regulation 19 information provided by the applicants stated that the Region could provide a significant proportion if not all of the paper feed stock for the MDIP [CD 2/10, p19-16]. This forms the basis of ECC's 20%/80% split.

12.13 The LCG are opposed to Condition 35 insofar as it would allow construction to take place for 12 hours on Sundays. ECC points out that a similar condition was applied to the RCF permission and the applicants argue that the PFI programme

expectations suggest that the plant would need to be constructed within 2 years which may well necessitate Sunday working.

12.14 There is some concern that Condition 38 does not specify where the noise measurements should be made. It is suggested that the wording in the last sentence of Condition 39 should be added to Condition 38.

12.15 Cllr Abbott for the LCG is concerned that Conditions 39 and 40 allow much higher noise levels than predicted by the applicants. The proposed (LAeq 1hour) limit is 42dB between 1900 and 2300 hours, and 40 dB between 2300 and 0700, whereas the application predicts levels of 30dB and as low as 22dB. Moreover, it is considered that Condition 42 is unreasonable in allowing an increase in noise up to 70dB (LAeq 1 hour) for up to 8 weeks per year. Condition 41 is considered to be inadequate.

12.16 The LCG considers that Condition 44 should specifically require lighting with zero tilt and that lights should not be sited above existing ground levels. In response ECC submits that the condition provides adequate control. It considers that specific controls imposed at this stage, before the lighting scheme is finally designed, could be counter-productive.

12.17 The applicants submit that Condition 52 should be deleted as it is a matter that would be dealt with when application is made for an Environmental Permit (EP). However, ECC points out that the EP would not control the excavation and construction of the plant and the condition is not unduly restrictive.

12.18 The LCG would like to see a complete prohibition of the works set out in Condition 55 during the bird nesting season. The applicants point out that this would be unreasonable if no bird nesting were taking place at the location in question.

12.19 Amongst other things, Condition 56 controls the height of the proposed stack. The applicants consider that it is unlikely that the EA would require a stack taller than 85m AOD (35 m above existing ground level) as part of the EP process. Nevertheless, the visual impact of a stack up to 90m AOD in height has been assessed and shown in at least one montage submitted by the applicants. The applicants seek the SoS's view on this matter. A Section 73 application would have to be made if a taller stack were to be required, but the views of the SoS would obviously be helpful if they were known in advance.

12.20 Condition 60 relates to the management and watering of trees adjacent to the proposed retaining wall for the period of excavation and construction of the IWMF. The LCG submits that these measures should continue during the operational phase. However, ECC argues that the trees rely on surface water rather than ground water in the substrata and therefore there would be no need to continue watering after construction is complete.

12.21 A conformed and a certified copy of the completed S106 agreement can be found at Document CD/14/5. The S106 agreement includes a covenant whereby the developer would not implement the planning permission until the highway works set out in Schedule 1 were completed. The works include improvements to the access road crossings at Church Road and Ash Lane and at locations where public rights of way cross the access road. These works are necessary in the interests of the safety

of users of the local highway and rights of way network. Some parts of the proposed highway works would be dedicated where they would form part of the public highway network. A section of the existing access road would also be widened.

12.22 The document also makes provision for a traffic routing management scheme in a form to be agreed with the County Council. Plan No 2 of the document shows the routes intended for HGVs and Schedule 6 sets out details of the scheme.

12.23 The third schedule relates to the setting up of a Site Liaison Committee. This would provide a forum between the operator, the local authorities and the local population to discuss the ongoing operations of the development and to assess compliance with various aspects of the control of the development. It would provide an opportunity for the results of air quality monitoring required by the EA, and ground water monitoring results to be presented to representatives of the local community. The LCG would like to see ambient air quality monitoring being undertaken at specified receptor locations. However, the applicants point out that this would be subject to so many variables that the data would be of limited value and it would be preferable and more meaningful to monitor emissions from the stack as is likely to be required by the EA.

12.24 The document also makes provision for the refurbishment of the Woodhouse Farm complex, providing amongst other things an education centre for the public, and an area to be set aside for local heritage, and an airfield museum.

12.25 The fourth schedule relates to a management plan to ensure that all retained and proposed vegetation is managed in a manner that would mitigate the visual impact of the development and improve and enhance the ecological value of the area. The management plan would cover a period of 20 years from the commencement of beneficial use of the facility. The document also provides for the planting of trees and shrubs for woodland and hedgerow areas, and seeding for areas of open habitat.

12.26 Clause 3.15 of the document seeks to ensure that the development is implemented and that the permission is not used merely to extract minerals from the site.

12.27 The document also makes provision for a level two and, where appropriate, a level three survey, in accordance with the 2006 English Heritage guidance entitled 'Understanding Historic Buildings: A guide to good recording practice', for all buildings and structures within a defined area set out in the document. It also provides for funding a presentation of the findings.

12.28 Provision is made for a groundwater monitoring scheme to be undertaken and if necessary for mitigation measures to be taken. The monitoring would continue until such time as it could be demonstrated that the development would not cause material adverse effects on ground water levels.

12.29 The agreement also links the Paper Recycling Facility (MDIP) to the CHP plant, except for periods of maintenance, thereby ensuring that the MDIP is an integral part of the overall plant.

12.30 The eighth schedule makes provision for the setting up of a Community Trust Fund to fund local community projects, and requires the developer to pay to the Trust Fund 5 pence per tonne of waste imported to the site.

SECTION 13 - INSPECTOR'S CONCLUSIONS

Note: Source references to earlier paragraphs of this report are shown in brackets thus [].

13.1 Section 38(6) of the Planning and Compulsory Purchase Act 2004 requires that the application should be determined in accordance with the development plan unless material considerations indicate otherwise. Bearing in mind the matters on which the Secretary of State (SoS) wishes to be informed, the evidence submitted at the inquiry, the written submissions and my inspections of the site and its surroundings, I consider that the main considerations in this case are as follows:

- i. the relationship of the proposed development to prevailing planning policy;
- ii. whether the design of the proposal is of high quality and would result in a sustainable form of development;
- iii. the visual impact of the proposal and its effect on the character of the surrounding area and the wider countryside, bearing in mind the guidance in Planning Policy Statement (PPS) 7;
- iv. the extent to which the proposal is consistent with advice in PPS10 to provide adequate waste management facilities for the re-use, recovery and disposal of waste and to ensure that decisions take account of the waste hierarchy, the proximity principle and regional self-sufficiency;
- v. whether there is a need for a facility of the proposed size;
- vi. whether the overall scheme, including the de-inking and paper pulping facility, represents a viable proposal;
- vii. the weight to be given to the fallback position of the RCF permission granted in 2007;
- viii. whether there is a need for the scheme to provide flexibility to accommodate future changes in waste arisings and the way in which waste is dealt with, and if so, whether the scheme takes account of such need;
- ix. the effect of the scheme on the living conditions of local residents with particular regard to noise and disturbance, air quality, odour, dust, litter, outlook, and light pollution;
- x. whether the development would create a material risk to human health;
- xi. the effect of the proposal on highway safety and the free flow of traffic on the highway network;
- xii. the effect of the proposal on the local right of way network;
- xiii. the implications for the local ground and surface water regimes;
- xiv. the implications of the associated loss of Grade 3a agricultural land;
- xv. the effect of the proposal on habitats, wildlife and protected species;
- xvi. the impacts on the setting of listed buildings in the locality and the setting of the Silver End Conservation Area, and the desirability of preserving the listed

buildings or their settings or any features of special architectural or historic interest which they possess; and,

xvii. the effect on the historic value of the airfield.

i. Prevailing Planning Policy

13.2 When considering the extent to which the scheme is in accord with the development plan, the applicants submit that only the Regional Spatial Strategy (RSS) (which I shall refer to as the East of England Plan (EEP)) is up to date. I agree that it is the most up to date of the documents which make up the development plan, but the saved policies of the Essex and Southend-on-Sea Replacement Structure Plan 1996-2011 (ESRSP), the Essex and Southend Waste Local Plan (WLP) and the Braintree District Local Plan Review (BDLPR) are also of relevance in this case. Some policies in the WLP require consideration of the Best Practical Environmental Option (BPEO), whereas the Companion Guide to PPS10 indicates that there is no policy expectation for the application of BPEO, and that requirements that are inconsistent with PPS10 should not be placed on applicants. Nevertheless, it seems to me that the WLP is still broadly consistent with the subsequent PPS10. [3.4, 6.54, 8.53]

13.3 Many objectors argue that the proposal does not accord with the development plan. ECC, however, points out that although the proposal does not comply with some policy, a whole raft of development plan and national policy guidance is supportive of the eRCF scheme. ECC considers the proposal is a departure from the development plan primarily for two reasons, although they argue that these are not significant departures. Firstly, the site extends beyond the boundaries of the site allocated for waste management in WLP Policy W8A and Schedule WM1. Nevertheless, the principle of developing a waste management facility at this location accessed off the A120 is supported by the development plan. Moreover, the allocation does not incorporate land for access and does not include Woodhouse Farm. The former is a necessary part of any proposal and the latter is an element of the scheme which is clearly beneficial in this case. It must also be borne in mind that the RCF permission establishes the principle of waste management facilities extending beyond the allocated site. For these reasons, I agree with ECC that the weight to be given to this departure is limited. [3.4, 7.1, 7.5-7.7, 8.53, 11.3]

13.4 The second reason is that the Market De-inked Paper Pulp facility (MDIP) is considered to be an industrial activity. Siting such development in the countryside would be contrary to BDLPR Policies RLP27 & RLP78. Policy RLP27 seeks to ensure that development for employment is concentrated on suitable sites in towns and villages. However, it seems to me that the MDIP is an integrated part of the eRCF designed to recover high quality pulp from waste. EU waste legislation and policy indicates that waste remains waste until it is recovered. The processing of waste paper through the MDIP would be a waste management process. I have no hesitation in concluding that the MDIP would be a waste management facility. The BDLPR does not regulate waste development. Notwithstanding this, the focus of Policy RLP27 is on the strategic location of employment and traffic generators. The RCF which has already been permitted is also a generator of employment and traffic and there is little difference between it and the eRCF in this respect. [3.5, 6.64, 7.9, 8.55]

13.5 Policy RLP78 seeks to restrict new development in the countryside. However, a large part of the area where the integrated waste management facility

(IWMF) buildings are proposed is allocated for waste management facilities and again the permitted development of the RCF establishes the principle of large scale waste management development at this site. For these reasons, I give only limited weight to the claimed conflict with BDLPR Policies RLP27 & RLP78 on these matters.

13.6 Need is a matter to be addressed under the development plan. Amongst other things WLP Policy W8A seeks to ensure that there is a need for the facility to manage waste arising in Essex and Southend. The consideration of need also arises in the guidance of PPS10. I assess the need for the eRCF below and conclude that there is a need for waste treatment facilities having a capacity at least that of the proposed eRCF in order to achieve the national waste objectives set out in PPS10 and Policy MW1 of the EEP, and to achieve the recycling targets for Essex and the East of England, set out in Policy MW2 of the EEP. [6.55, 7.11, 7.12]

13.7 The LCG submits that the proposal does not comply with EEP Policy WM1, pointing out that the policy requires the environmental impact of waste management to be minimised, including impacts arising from the movement of waste. I have considered these issues under a number of headings below, and although the development would have a number of detrimental impacts, including an impact on the character and appearance of the area; increased HGV movements on the A120; a detrimental impact on the living conditions of local residents; and loss of Grade 3a agricultural land; I am not convinced that the impacts are so great that they make the proposal unacceptable. In my opinion, the scheme has been designed to minimise the impact of waste management and does not therefore conflict with EEP Policy WM1. [8.56]

13.8 I am satisfied that the proposed MDIP is consistent with EEP Policy WM3. It would enable the recovery of locally arising wastes together with higher grade waste paper attracted from outside the region because of the absence of similar facilities in the UK. [6.56]

13.9 Objectors point to the congestion which presently occurs on the A120 and submit that, by adding further HGV traffic to the A120, the proposal would conflict with EEP Policy T6 which, amongst other things, seeks to improve journey reliability on the regional road network as a result of tackling congestion. However, paragraph 7.18 of the EEP makes it clear that the regional road network should be the lowest level road network carrying significant volumes of HGVs. Policy T6 relates to the improvement, management and maintenance of the strategic and regional road networks, and thereby aims to ensure that they are fit for purpose. Traffic generated by the proposal would access the site directly via the A120 Trunk road and would therefore be directed immediately to the appropriate road network level. In this respect the proposal does not conflict with EEP Policy T6. [6.75, 8.34]

13.10 For all the above reasons, I consider that the proposal is broadly consistent with the policies of the development plan, although it does not comply with all policies. For example, the loss of Grade 3a agricultural land would be in conflict with BDLPR Policy RLP 88, and the visual impact of the chimney would have some detrimental impact on the landscape character and thereby conflict with the objectives of RLP 78 and EEP Policy ENV2. However, in relation to the requirements of EEP Policy ENV2, it is arguable that appropriate mitigation measures would be provided to meet the unavoidable damage to the landscape character that would be caused by the proposed chimney stack. [6.85, 8.55, 9.31]

13.11 I have considered the proposal in the light of national guidance. Whilst there is some conflict with the guidance, again for example, the loss of agricultural land and the impact of the proposed stack on the landscape character, I am nevertheless satisfied, for the reasons given in the following sections, that the proposal is generally in accord with national guidance, including that contained in PPS1, PPS7, PPS10, PPG15, PPS22 and PPS23.

ii. The quality of the design and sustainability implications

13.12 The design, layout, scale, dimensions and external finishes of the eRCF are similar to those of the RCF, albeit that the eRCF would have a footprint about 17% larger than the permitted scheme. The main difference between the schemes is the addition of the MDIP facility, the CHP plant, and the stack. Bearing in mind the nature and size of the proposed development, I consider that it would be remarkably discreet within the landscape. The IWMF would be sited below existing ground level which would result in a large proportion of the structure being hidden from view and the rooftop level of the main buildings would be no higher than the existing hangar on the site. Moreover, the large arched roofs of the main buildings would resemble those of an aircraft hangar and thereby reflect the past use of the site as an airfield. [6.6, 6.94, 7.19, 8.25]

13.13 The cladding materials would be dark and recessive and the green roof of the main buildings would be colonised with mosses. The application site lies in an unlit area which is sensitive to light pollution. However, it seems to me that lighting at the site would be as unobtrusive as possible. Most, if not all, lighting units would be sited below existing ground level and designed to avoid light spillage. In addition, the extension to the access road would be built in cutting or on the existing quarry floor so that traffic generated by the site would be screened from many viewpoints, although the access road would be crossed by a number of footpaths. [6.6, 6.84, 6.93, 7.20, 11.3]

13.14 I consider that the combination of the above features, together with the proposed additional woodland and hedgerow planting, would help to alleviate the impact that such a large development would have upon its surroundings. In relation to the RCF proposal, CABE commented that the location was suitable for a waste management facility and that the proposed architectural treatment and sinking of the building and approach road into the ground raised no concerns. CABE made no consultation response in relation to the eRCF. [6.95, 7.19, 7.28]

13.15 The proposed stack would be an intrusive feature in the landscape. Again, however, the design of the scheme has sought to minimize this impact. The scheme has been amended so that only one stack would be built, albeit that it would be some 7m wide. Nevertheless, it is predicted that there would be no visible plume rising from the stack and the structure would be clad in a reflective finish. This and its siting, where a significant proportion would be screened from view, would help to mitigate its impact. [6.4, 6.82, 6.116, 7.20, 9.23-26, 11.4, 11.12, 12.7]

13.16 It seems to me that each of the waste management processes within the eRCF would benefit from the proposed integration with others. However, there is sufficient capacity in each of the processes to allow for variation thereby providing flexibility of use. [6.97]

13.17 The Climate Change Supplement to PPS1 requires that proposals make an appropriate contribution to climate change. Analysis using the EA's 'WRATE' Life Cycle Assessment Model indicates that the eRCF would result in a significant reduction in CO₂ emissions. The total savings of CO₂ by 2020 would be in excess of 70,000 tpa which compares favourably with the 37,000 tpa savings from the RCF. The integrated nature of the development would enable the power supply required to run the entire plant to be self generated at a lower carbon emission rate than electricity drawn from the National Grid. Decoupling the CHP from the rest of the scheme would require 25MW of electricity from the National Grid to power the waste management processes. [6.99, 6.100]

13.18 I am mindful that the WRATE analysis does not take account of the production of biogenic CO₂ in the carbon balance. This approach is justified on the basis that CO₂ has already been sequestered in the growing plant and the overall balance is therefore neutral. Saffron Walden Friends of the Earth (SWFOE), on the other hand submits that biogenic CO₂ should be included in carbon emission calculations, not least because the production of biogenic CO₂ contributes to climate change, whereas sequestered carbon remains truly neutral. There is some merit in this argument, although, as the applicants point out, FOE's concern on this matter primarily relates to its disagreement with current guidance. IPPC guidance does not require biogenic CO₂ to be included. It may well be that other methods of dealing with organic waste, such as composting, would result in carbon being sequestered for a considerably longer period than in the case of incineration where much of the carbon would normally be released immediately. However, there is no dispute that the applicants have adhered to current guidance in assessing the carbon balance. [6.4, 10.8]

13.19 PPS22 indicates that energy from waste is considered to be a source of renewable energy provided it is not the mass burn incineration of domestic waste. SWFOE submits that the CHP should be characterised as disposal rather than recovery of waste as a matter of EU law. It also argues that recovery of energy through the CHP does not meet the formula for R1 recovery operations set out in Annex II of Waste Directive 2008/98/EC, which comes into force in late 2010. However, the energy efficiency figure formula set out in the Appendix to the Directive indicates that the CHP would meet the requirement for classification as recovery. Moreover, as the applicants point out, CHP is currently supported by WSE 2007 and other national and regional policy because of its ability to recover energy whether or not it is technically recovery or disposal in EU terms. The Waste Directive 2008 seeks to address the categorisation issue. The use of SRF in the proposed CHP plant and the export of electricity to the National Grid would contribute to meeting the Government's Renewable Energy target of producing 15% of UK energy from renewables by 2020. The contribution would be increased by the proposed co-location of the MDIP and its consumption of heat from the CHP plant. For these reasons, I agree with the applicants that the eRCF proposal is in accord with the objectives of PPS22, the UK Renewable Energy Strategy, and WSE 2007 in this respect. [6.5, 6.101, 6.102, 7.27, 10.9-10]

13.20 Objectors submit that it is inappropriate to site such large scale development within the countryside. I am mindful that the application site can only be accessed by means of road transport and that for the workforce and visitors it would not be readily accessible by means other than the private car. However,

such a development would not necessarily be readily sited at the edge of a town or service centre. Moreover, permission has already been granted for a major waste management facility at this location. [8.23, 11.3, 11.16]

13.21 The operational impacts of the development would be minimised by the use of negative air pressure within the buildings and a design which would allow, and require, all loading and unloading of material to take place within the buildings.

13.22 For all the above reasons, I conclude that the design of the eRCF is of high quality and that it would be a sustainable form of development which would enable the management of waste to be undertaken in a sustainable manner.

iii. The impact on the character and appearance of the area.

13.23 My conclusions on this issue are interlinked with my comments on the impact of the development on the living conditions of local residents. My conclusions, at paragraphs 13.66 to 13.85 below, should therefore be read in conjunction with the following comments.

13.24 The site is situated in an area of primarily open, flat countryside, which allows long distance views from some locations. The character of the site and its immediate surroundings is heavily influenced by the remains of runways and buildings from the former Rivenhall Airfield; the nearby excavations at Bradwell Quarry; and blocks of woodland immediately to the south and east of the proposed location of the IWMF. The wider landscape beyond this area comprises gently undulating countryside, characterised by large open fields, small blocks of woodland and discrete, attractive villages. The existing access to the quarry, which would be used to provide access to the IWMF, passes through the Upper Blackwater Special Landscape Area. [2.1, 2.2, 6.77]

13.25 The site of the proposed IWMF and its immediate surroundings is not subject to any special landscape designation and is not, in my judgment, an area of particularly sensitive countryside. Its character as Essex plateau farmland has been degraded by the airfield infrastructure, the nearby quarry and isolated pockets of commercial development in the locality. The principle of a waste management facility at this location served from the A120 is established by the allocation in the WLP. The WLP inspector did not rule out an incinerator on the site, and WLP policy W7G suggests that such development may be acceptable. Moreover, as I conclude at paragraph 13.60 below, the RCF permission establishes the principle of large scale waste management at the application site, and the potential environmental impacts of the RCF are a material consideration in the present case. [2.5, 2.7, 6.77, 7.25, 8.16]

13.26 The eRCF has been designed in a manner that would limit its impact on the landscape. The building would be sited below existing ground level and the proposed extension to the access road would be primarily in cutting; the arched roofs of the main buildings would reflect the design of aircraft hangars; cladding materials would be dark and recessive; the green roof of the building would become colonised with mosses; and new hedging together with existing and proposed woodland would help to screen the development.

13.27 Lighting of the development would have some impact on the character of this presently unlit area. Again the design of the development is such that this

impact would be minimised. Most lights would be sited below existing ground level with flat glass luminaires mounted at zero tilt. Outside the hours of 0700 to 18.30 hours, external lighting would operate only in response to movement sensors. The disturbance caused by the coming and going of vehicles would also be reduced by the fact that much of the access road would be in cutting. [6.82-84]

13.28 I deal with the matter of tranquillity at paragraph 13.71 below and conclude that impact of the development on the tranquillity of the area would not be serious, once the construction operations are complete. [6.124, 8.15, 9.5]

13.29 The eRCF would have a slightly greater footprint than the RCF and it would be constructed further into the existing belt of woodland to the south. However, the main difference between the two schemes, in relation to the impact on the character and appearance of the area, would be the addition of the proposed stack. This would be a noticeable and substantial feature. It would rise 35m above existing ground level and be some 7m in diameter. It would, however, be partially screened by woodland to the south, east, and west and by the IWMF building when viewed from the north. Nevertheless, from many locations the top 20 metres of the stack would be visible. Moreover, the topography of the area would enable long distance views of the top section of the stack from some locations. Although the stack would be a relatively minor element in the landscape as a whole, and there would be no visible plume, I consider that it would appear as an industrial feature which would have some detrimental effect on the present lightly developed, semi-rural character of its surroundings. [6.103, 8.20]

13.30 On the other hand, the mitigation measures associated with the development would result in some enhancement of the countryside. The proposed woodland planting would cover a greater area than the area of woodland that would be lost, and the 2kms of new hedgerow would be of particular benefit. There would be a loss of 19.1 ha of existing open habitat, although much of this is not of high quality, and the proposal would provide for the management of remaining areas of habitat and various areas of new habitat. Moreover, the proposal includes the management of existing and proposed water bodies which would enhance the bio-diversity of the area. I also consider that the proposed refurbishment of the derelict listed buildings at Woodhouse Farm would be of benefit to the character and appearance of the countryside. [7.28, 8.19]

13.31 In conclusion, I consider that the eRCF would have some urbanising and detrimental impact on the semi-rural character and appearance of the area, and in this respect it would conflict with the aims of BDLPR Policy RLP78 and EEP Policy ENV2. However, I am mindful that the rural character of the area has already been degraded. Moreover, when compared to the RCF proposals, the main additional impact of the eRCF on the character and appearance of the area would be as a result of the proposed stack. This would have a materially detrimental effect on the character of the area, although as it would be partly screened it would not, in my judgement, be an overwhelming feature in the landscape. Bearing in mind the benefits that would be provided by additional woodland and hedgerow planting, over and above that which would be provided by the RCF development, I conclude that the overall impact of the eRCF upon the character and appearance of the area would be detrimental but limited. By providing these mitigation measures where a detrimental impact is unavoidable, the proposal arguably meets the requirements of EEP Policy ENV2 and I consider that the overall impact would be acceptable. I agree

with the applicants that the limited visual impact arising from such a large-scale proposal suggests that the site is reasonably well located for the proposed use. On balance, I consider that the proposal respects the objectives of PPS7 and the extent of conflict with the guidance is limited. [7.30]

iv. Consistency with PPS10

13.32 PPS10 seeks a step change in the way waste is handled by moving the management of waste up the waste hierarchy. The guidance indicates that the overall objective of Government policy on waste is to protect human health and the environment by producing less waste and by using it as a resource wherever possible. The eRCF would provide various means of dealing with waste, all of which would help to reduce the need for landfill. The various elements of the integrated plant would recycle waste, produce compost, and create energy from waste.

13.33 Some objectors argue that the development would discourage measures aimed at separating waste at the point of collection, whilst others are concerned that the demand for feedstock for the CHP would discourage recycling and result in certain wastes being managed at a point lower on the waste hierarchy than would otherwise occur. Under certain circumstances, where, for example, overall waste volumes reduced significantly, I agree that the existence of the eRCF could potentially reduce the incentive to separate waste at the point of collection. On the other hand, as markets for recycled waste develop, a reduction in the availability of recycled waste could increase its value and thereby enhance any incentive to separate waste at the point of collection. Similar arguments could be made in relation to feedstock for the CHP. [10.4, 11.16]

13.34 In reality, challenging targets are in place, relating to the recycling and recovery of value from waste, and the elimination of landfilling untreated municipal and commercial waste by 2021. In meeting these targets, I have no doubt that significant waste management facilities with overall capacities greater than that of the eRCF will be required, in addition to the current and future incentives to reduce waste, re-use materials, and separate waste at the point of collection. ECC considers that the type of facility now proposed at the application site will be necessary if it is to meet the national waste objectives set out in PPS10 paragraphs 1 and 3 and the challenging targets set out in EEP Policy MW2. [7.16]

13.35 The proposed facility would help to deliver these objectives by moving waste up the hierarchy. It would recover recyclables, produce compost and reduce the need for disposal of residual material to landfill by using such material as a fuel for combustion in the CHP plant. It would also use imported SRF from other permitted waste management facilities in Essex, which might otherwise go to landfill. The scheme would generate electricity and provide a specialized facility for the recovery of recycled paper. Although the combustion of waste is only one step above landfilling in the waste hierarchy, the CHP is only one of the facilities that would be available at the eRCF. In my judgment, this integrated plant would allow the anticipated waste arisings to be managed as far up the waste hierarchy as reasonably and practically possible. Moreover, it would significantly reduce the amount of residual waste that would need to be sent to landfill. In these respects the proposal is in accord with the objectives of PPS10. [7.16]

13.36 In relation to the aim of protecting human health and the environment, I consider that by reducing the amount of material sent to landfill; recycling material; and using waste as a resource; the eRCF would be beneficial to the environment and thereby to human health. However, the question arises as to whether the emissions from the plant would conflict with the aim of protecting human health and the environment. I deal with these matters at sections x and xv below, and conclude that the plant could be operated without causing any material harm to human health or the environment. The dispersion modelling assessments undertaken to date show that the risks to human health would be negligible and I am satisfied that this matter would be adequately dealt with by the Environmental Permitting regime.

13.37 Objectors argue that the proposal does not comply with PPS10 because (i) there is no need for a facility of this size; (ii) it would not contribute positively to the character of the area; (iii) it would result in visual intrusion; (iv) the traffic generated on the A120 would be unacceptable; (v) the scheme does not reflect the concerns of the local community; and (vi) it conflicts with other land use policies. I consider the need for the facility in the section below and conclude that a need has been demonstrated for waste treatment facilities having a capacity at least that of the proposed eRCF. In relation to the impact of the proposal on the character and appearance of the area, I conclude at paragraph 13.31 above that although the eRCF would have some detrimental impact on the rural character and attractive appearance of the area, the mitigation measures that would be put in place would reduce this impact to an acceptable level. Similarly, I am satisfied that the condition limiting the daily HGV movements generated by the development to no more than 404, and the provisions of the S106 agreement with regard to traffic routeing, would ensure that the impact of generated traffic on the local road network would be acceptable. [8.58]

13.38 Clearly the local community have deeply held concerns regarding the proposal in relation to a range of matters. However, although planning strategies should reflect the concerns and interests of communities, this requirement applies not only to the immediate local community but the wider community to which the strategies apply. I consider that the design of the scheme, and the mitigation measures employed have addressed the concerns of the community so far as possible and to a reasonable extent. Obviously this has involved a balance in seeking to minimise the impacts of the development whilst making use of the benefits that the development could provide. The eRCF would allow Essex to increase its provision of sustainable waste management, secure increases in recycling and recovery, and reduce carbon emissions. The community's needs for waste management would in part be addressed by the eRCF. [6.108, 6.109]

13.39 I am mindful that the proposal conflicts with some objectives of planning policy. For example, it would result in the loss of some of the best and most versatile agricultural land, and it is not fully in accord with WLP Policy W8A in that the application site is larger than the allocated site and the proposed building is substantially larger than envisaged. However, these matters must be balanced against the benefits of the proposal and other sustainability issues. Moreover, account must be taken of the wide range of mitigation measures which would minimise the impacts of the development.

13.40 Overall, I am satisfied that the proposal is consistent with the key planning objectives set out in PPS10. It would help to deliver sustainable

development by driving waste management up the waste hierarchy and contribute towards ensuring the timely provision of sufficient waste management facilities to meet the needs of the community. With regard to self sufficiency, the facility would meet a need in the region to deal with MSW and/or C&I waste. The development would help to reduce carbon emissions and would have benefits in terms of climate change. It would also contribute to the implementation of the national waste strategy. The impacts of the development could be adequately controlled or mitigated, and the proposal would pose no significant risk to human health and the environment. In my opinion, the design of the development and the associated mitigation measures would help to support the objectives of sustainable waste management. [6.99, 6.106, 7.31-33]

v. The need for the proposed facility

13.41 PPS10 indicates that where proposals are consistent with an up-to-date development plan, applicants should not be required to demonstrate a quantitative or market need for their proposal. Although the WLP allocates a site for waste management facilities at Rivenhall Airfield, in accordance with Policy W8A and Schedule 1, the allocated site is far smaller than the application site. Moreover, the size of the proposed IWMF is clearly much larger in area than that envisaged in Schedule 1. Furthermore, Policy W8A requires a number of criteria to be satisfied if waste management facilities are to be permitted. One of these is that there is a need for the facility to manage waste arisings in Essex and Southend. I appreciate that the WLP pre-dates PPS10 and is arguably out of date in that it requires, for example, waste management proposals to represent the BPEO. Notwithstanding this, it cannot be argued that the proposal is fully in accord with an up-to-date development plan. Given the difference in size between the proposed development and the development anticipated on the allocated site, I consider that the need for a facility of the proposed size should be demonstrated. [7.11]

13.42 The EEP sets challenging targets for the recycling, composting and recovery of both MSW and C&I waste in accordance with the WSE 2007. By 2015, 70% of MSW and 75% of C&I waste must be recovered. The Plan anticipates provisional median waste arisings for MSW and C&I waste for Essex and Southend, including the required apportionment of London Waste, for the period 2015/16 to 2020/21 to be 3.67mtpa. However, the applicants' need case has been assessed on a more conservative basis, using the 2.4mtpa for 2020/21, which is put forward by the East of England Regional Assembly (EERA) in its report entitled 'Waste Policies for the Review of the East of England Plan' dated 29 June 2009. Nevertheless, as this document is at the consultation stage, the larger EEP figure should be used. Indeed, as the applicants point out, the consultation process on the EERA Report of July 2009 has not yet been completed and subject to examination and therefore the document carries little weight. Accordingly, the 3.67mtpa figure in EEP Policy WM4 is the figure which should be used at present. [6.25]

13.43 In contrast to these figures, the potential treatment capacity of the currently permitted facilities in Essex is only 1.375 mtpa, and there do not appear to be any current plans to bring capacity forward on the WLP preferred sites that are not already the subject of a resolution to grant planning permission. Therefore, even on the basis of the reduced figures in the consultation document, I am satisfied that there is a need in Essex for new facilities to manage both MSW and C&I wastes. The LCG submits that the EEP policies are based on arisings which are not occurring at

present; the actual arisings being lower than estimated. However, I give little weight to the 'Updated Capacity and Need Assessment – Final Report' prepared by ERM for ECC in July 2009, as it contains a number of inaccuracies and will not form part of the evidence base for ECC's Waste Development Document. [6.13 -6.16, 6.30, 7.11-7.13, 8.6]

13.44 Many objectors, including the LCG consider that the capacity of the proposed eRCF is far greater than the perceived need. However, even on the basis of the lower, but disputed, figures for need based on the ERM reports, there is still a need for the proposed MBT facility in terms of MSW and C&I waste arisings. These figures result in a capacity gap of 326,800 tpa, compared to the proposed MBT capacity of 250,000 tpa. Using the reduced EEP figures, the overall treatment capacity gap in 2021 is likely to be between 412,762 and 537,762 tpa even on the basis that the Basildon site and the eRCF is developed. The capacity gap for C&I facilities exceeds the capacity of the proposed development. Moreover, the waste management capacities of the RCF and eRCF are similar for imported waste of similar composition, and therefore the 'need' for the treatment capacity has arguably already been established. [6.4, 6.6, 6.12, 6.25, 8.1, 10.3, 10.17, 11.3]

13.45 The figures put forward by the applicants suggest that without thermal conversion of residual waste, Essex would need to permit at least 1 or 2 new large landfills. Such capacity is unlikely to come forward because of the difficulty of securing planning permission for disposal capacity where insufficient treatment capacity exists further up the waste hierarchy. Thermal treatment of residual waste, incorporating CHP, is supported by the WSE 2007 and ECC's OBC 2008. It increases the level of recovery and reduces pressure for additional landfill. The CHP would make use of imported solid recovered fuel (SRF) from other permitted waste management facilities in Essex. Although the LCG argues that this would be a marketable fuel, the SRF could go to landfill if an end user is not found. The LCG submits that the use of the SRF merely meets a secondary or ancillary need. However, ensuring that good use would be made of such fuel meets a material need in my judgment. Moreover, the CHP would reduce the need for landfilling of residuals from the MBT, and by using residues from the paper pulp recovery process as a fuel, it would remove a need for offsite disposal of such material and the potential for it to be sent to landfill. [6.18, 7.16, 7.31, 8.2]

13.46 The LCG argues that there is no primary need for the eRCF because ECC would allow all potential operators to have access to the Basildon site on equal terms and thereby meet its need to deal with MSW arisings at that site. However, the eRCF would accommodate the only proposed CHP facility capable of treating the SRF to be produced by MBT through the MSW contract. Moreover, I agree with the applicants that the need for the eRCF is unaffected by the fact that it is not the reference project in ECC's OBC 2009. The reference project was amended to a single site not because ECC considered the application site to be unsuitable, but because ECC did not have control over it. ECC confirms that the eRCF would provide suitable technology for the proposed ECC waste contract. It submits that the significance of the OBC is that it provides evidence of ECC's need for an operator and site to handle its MSW contract. The eRCF would be able to bid for that contract and the additional competition it would introduce would be welcomed by the WDA. The eRCF could meet ECC's need to dispose of its MSW, quite apart from its capacity to meet C&I waste arisings. [6.10, 6.21, 7.15]

13.47 The treatment capacity gap for C&I waste is such that even if the applicants did not win the ECC MSW contract, there is a sufficient need for the site to deal solely with C&I waste. The proposal put forward by Glendale Power for a 30,000 tpa AD power station and associated CHP system at Halstead is at an embryonic stage. Even it were to proceed, there would still be a need for waste treatment facilities in Essex of a greater magnitude than the capacity of the eRCF. [6.25, 6.28, 11.18]

13.48 It is argued by some objectors that there is no need for the development because recycling rates are increasing throughout the country and the application proposal could undermine efforts to increase recycling. There is no doubt that significant improvements in the separation of waste and subsequent recycling are taking place. This could well reduce the quantity of waste that would need to be sent to a facility such as the eRCF. However, the eRCF has the potential to increase still further the amount of recycling, treatment and recovery of waste in the County, and it seems to me that such facilities will be necessary to help ECC to meet its waste targets. There is no reason why the proposal should obstruct a continued increase in the recycling and recovery of waste. [6.23, 10.2, 10.32, 11.14]

13.49 I appreciate the concern that recyclable material should not be incinerated. Such an approach encourages the treatment of waste at a lower level in the waste hierarchy than need be the case. However, the application proposal would provide facilities to maximise the recovery of recyclable material and there is no reason to believe that materials which could reasonably be recycled would be used as fuel in the CHP.

13.50 With regard to the proposed MDIP, the LCG points out that only about 36% of recovered paper is likely to be suitable for use at the facility. It is argued that the applicants are over ambitious in their approach to the amount of feedstock that would be available. However, I am mindful that there will be no MDIP facility in the UK after 2011 to produce high quality paper pulp. The proposed MDIP at Rivenhall would be capable of meeting the needs of Essex and the East of England in terms of the recycling and recovery of high quality paper, thus meeting WSE 2007 key objectives. The facility is likely to stimulate greater recovery of high quality paper waste. I agree with the applicants that it would help to divert a significant quantity of paper and card from landfill. At present some 713,000 tpa of such waste is currently landfilled in the East of England. The MDIP would provide a facility to meet the needs of a wider area in accordance with EEP Policy WM3. [6.12, 6.20, 7.17, 8.7-8.12, 10.29]

13.51 In summary, I consider that the eRCF would help to satisfy a substantial and demonstrable need for MSW and/or C&I waste to be dealt with in Essex and for ECC to meet challenging targets set out in the EEP. The individual elements of the integrated plant would also help to satisfy various needs, including the need to move the treatment of waste further up the waste hierarchy and minimise the amount of waste that would otherwise be sent to landfill. I conclude that a need has been demonstrated for waste treatment facilities having a capacity at least that of the proposed eRCF.

vi. The viability of the proposal

13.52 Objectors question the viability of the scheme as a whole, and in particular that of the proposed MDIP. They point out that a full viability appraisal has not been provided by the applicants. Sufficient feedstock for the MDIP would not be available within the East of England Region and the operators would be reliant on their ability to offer competitive prices for feedstock. Furthermore, it is argued by objectors that it would be cheaper to produce pulp on the same site as a paper mill in an integrated paper production process. This would remove the need to dry the pulp prior to transportation. [8.11-8.13]

13.53 Clearly the proposed MDIP would require a large amount of feedstock. This would increase the demand for high quality paper waste and could well lead to an increase in the price of such waste on the open market. However, this, in turn could encourage increased recovery of high quality paper waste and ensure that better use is made of such waste.

13.54 The applicants submit that there is genuine commercial interest in the eRCF proposals from potential operator partners and key players. They point out that negotiations are presently taking place in relation to various aspects of the proposed MDIP, but these are commercially confidential. This is understandable given the present status of the scheme. Notwithstanding this, it seems to me to be a logical argument that the capital cost of the MDIP would be less than a stand alone facility, as it would be part of a much larger scheme. Moreover, relatively cheap power would be available from the CHP, thereby enabling the MDIP to operate competitively. I accept that the cost savings achieved by using heat and electricity generated by the CHP are likely to outweigh the additional costs of drying the pulp and transporting it to a paper mill. I have no reason to doubt that the MDIP would be capable of competing with a similar facility sited at a paper mill and in this respect it is a viable proposal. [6.42]

13.55 The applicants point out that the planning regime does not normally require a developer to prove viability. It is submitted that the issue of viability has arisen primarily because of EEP Policy WM3, which, although seeking a reduction in the amount of waste imported into the region, acknowledges that specialist waste facilities such as the MDIP, may have a wider than regional input of waste. However, the policy indicates that allowance should only be made for such facilities where there is a clear benefit, such as the provision of specialist treatment facilities which would not be viable without a wider catchment and which would enable recovery of more locally arising wastes. In relation to Policy WM3, viability is only an issue if the facility is one "*dealing primarily with waste from outside the region*". At paragraphs 13.144 – 13.149 below, I consider Condition 30 which seeks to restrict the amount of feedstock for the MDIP from outside the region. I conclude in that section that 50% of the feedstock should be sourced from within the region. On that basis, the issue of viability does not arise in relation to Policy WM3.

vii. The fallback position

13.56 Objectors argue that little weight should be placed on the extant permission for the RCF as there is no evidence that it would be implemented. It is pointed out that ECC resolved to approve the application for the RCF in 2007, yet planning permission was not granted until 2009 after the completion of the relevant

S106 agreement. Moreover, it is claimed that the applicants have described the RCF as an indicative scheme and acknowledge that it no longer represents the most suitable technology having regard to the JMWMS. Objectors point out that there is no evidence of detailed marketing or negotiations between the applicants and a waste operator, and to date no steps have been taken to implement the permission. [8.49-51]

13.57 The applicants have made no secret of the fact that they wish to provide a facility at Rivenhall airfield that would be capable of winning a major contract to deal with MSW arising in Essex. It seems to me that the eRCF is a major amendment to the RCF intended to maximise the chances and capability of winning a contract to deal with MSW arising in Essex. It is understandable that the applicants seek to build a facility that would be capable of dealing with as wide a range of waste as possible. A plant which is capable of dealing with large quantities of MSW and/or C&I waste (and in this case is combined with a specialised waste paper facility), provides considerable flexibility in terms of the type of waste that could be treated and the customers that could be served. It seems to me that such flexibility helps to maximise the economic viability of the project.

13.58 However, there is no overriding evidence that the RCF would not be viable. On the contrary, it seems to me that it would be capable of dealing at least with a substantial element of the County's MSW, and if this work failed to materialise it would be capable of dealing with C&I waste. ECC indicate that the RCF is consistent with, and would further, the aims of the JMWMS. [6.8, 7.15, 7.48]

13.59 Although the RCF proposal was put forward some years ago, the permission is recent and up to date. It is not surprising that details of any negotiations between the applicants and waste operators in relation to the building and operation of the RCF have not been put before the inquiry, partly because of commercial confidentiality and partly because of the present uncertainty regarding the outcome of the planning application for the eRCF. It is conceivable, if not likely, that any such negotiations regarding the RCF are on hold until the fate of the eRCF proposal is determined. [6.9]

13.60 For these reasons, I consider that there is a reasonable prospect of the RCF proposal being implemented in the event that the eRCF proposal is refused. Accordingly, I conclude that the RCF permission establishes the principle of large scale waste management at the application site, and that the potential environmental impacts of the RCF are a material consideration in the present case. [6.6, 7.49]

viii. The flexibility of the development

13.61 It seems to me that if a proposal is to be sustainable and economically viable in the long term, one of its attributes must be a degree of flexibility to accommodate future changes in waste arisings and in waste management techniques and practices. I agree with the SWFOE that the achievement of recycling targets will change the amount and constitution of residual waste. [10.2]

13.62 The SWFOE argues that as incinerators normally have a 25 year life span and require a constant supply of fuel, the whole eRCF system would be very inflexible. Objectors to the eRCF point to a need for flexibility in dealing with waste in future. Moreover, I note that Chapter 5 paragraph 23 of WSE 2007 indicates that

building facilities with an appropriate amount of flexibility is one of the keys to ensure that high rates of recycling and EfW can co-exist. [10.4, 10.24, 11.14]

13.63 I am mindful that the eRCF would have multiple process lines. For example, the MBT would have five autonomous process lines. The applicants argue that each of the facilities would have an inherent flexibility of capacity. The MRF would have the ability to allow rejects from one process line to become the feedstock of another. Moreover, minor modification to the MDIP would allow the facility to produce tissue paper pulp and it would be possible to introduce secondary treatment of the sludge from the MDIP to recover an aggregate. [6.97]

13.64 It is arguable that the integrated nature of the proposed eRCF; its exceptionally large scale; and the very significant amount of investment that would obviously be needed for its development would, in combination, result in a degree of inflexibility. On the other hand, the modular nature of the design, the flexibility of capacity of each process, and ability to make alterations to various modules would allow the eRCF to be adapted to varying compositions of waste. Moreover, the multiple autonomous process lines would allow a particular process to be upgraded in stages if necessary. For example, a CHP process line could be upgraded or replaced without shutting down the entire CHP process. In this respect, the large scale of the development provides opportunity for changes to be made to the process without endangering the overall viability of the operation.

13.65 On balance, I consider that the design of the proposal and its multiple autonomous process lines would provide a reasonable and sufficient degree of flexibility to enable future changes in the composition of waste and the ways in which waste is managed to be accommodated. In this respect, the scheme would not be detrimental to the achievement of increased rates of recycling.

ix. The effect on the living conditions of local residents

13.66 The eRCF proposal has the potential to cause harm to the living conditions of local residents in a number of ways. Some of the impacts are dealt with in other sections of these conclusions. I consider the issues as follows:

Noise and disturbance

13.67 Objectors point out that existing noise levels in the locality are low. It is especially quiet at night. The main potential sources of noise and disturbance from the proposal arise from the construction process, the operating of the IWMMF, and from traffic generated by the development. It seems to me that the greatest potential is likely to be during the construction phase. This is the period when maximum noise levels are predicted. The applicants have used the three suggested methods of assessment given in BS 5228:2009 Part1: Noise to consider the impact of construction noise. These all show that there would be no significant impact from construction noise at neighbouring residential receptors. The predicted construction noise level falls within the range 44 dB(A) to 52 dB(A). Moreover, the assessment of construction noise has been undertaken on a worst case scenario, as the work would include excavations, and it is highly likely that the change in landform would result in considerably greater attenuation of noise levels at receptors than predicted. [6.122, 6.123, 8.39, 8.40]

13.68 I agree with the applicants that the potential for noise from vehicle reversing alarms and the sounding of vehicle horns could be adequately controlled by appropriate management of the site.

13.69 Noise and disturbance generated by the operation of the plant would also be mitigated by the low level siting of the development and the partial screening provided by bunding. The waste management operations would be undertaken within environmentally controlled buildings, sited below surrounding ground level. The buildings would be insulated with acoustic cladding to reduce noise, and vehicles would enter and leave the building through high speed action roller shutter doors. The reception of waste would be limited to the operating hours of 07.00 to 18.30 on weekdays, and 07.00 to 13:00 on Saturdays. The assessment of operational noise level at all receptor locations for both day and night time periods shows that noise levels of operations would be below the level of 'marginal significance' according to British Standard 4142. The physical noise levels predicted for daytime operations fall within the range of 22 to 34 dB(A), and 22 to 30 dB(A) for night time periods. I am satisfied that such levels of noise would not have a material impact on the amenity of local residents. [6.123]

13.70 A significant proportion of the proposed extension to the access road would be in cutting, which would help to attenuate the noise of HGVs on this road. Moreover, lorries would be unloaded and loaded within the environmentally controlled buildings. The applicants point out that the change in noise levels attributable to increased road traffic flows resulting from the eRCF would be imperceptible, being considerably lower than 1dB. [6.125]

13.71 With regard to the tranquillity mapping described by the CPRE, the applicants argue that the site of the IWMF appears to be near the middle of the scale, suggesting that it is neither tranquil nor not tranquil. On the other hand, the version of the map supplied by the CPRE suggests that it is nearer the tranquil side of the scale. From my inspections of the site and its surroundings I am inclined to agree with the CPRE on this point, when considering noise. Although I conclude that the development would not have an unacceptable impact on the residential amenity of local residents as a result of the generation of noise, it seems to me that the development would have some detrimental impact on the present tranquillity of the area. However, bearing in mind the reasonably low levels of noise that would be generated, particularly during the operating phase of the facility, I am not convinced that the impact on tranquillity would be serious, once the construction operations are complete. [6.124, 9.4]

Air quality, odour and dust

13.72 Objectors are concerned about the impact of the development on air quality as a result of emissions from the stack; odours from the operations of the IWMF; and from additional traffic generated by the development. With regard to air quality, the SWFOE points out that no predictions have been provided for PM_{2.5}. However, as indicated at paragraph 13.91 below, even if all particles emitted from the eRCF were assumed to be PM_{2.5} the predicted maximum concentrations of such material would be 0.14 µgms/m³ which is significantly less than the target value of 25µgms/m³. [6.118, 10.13, 10.46]

13.73 Objectors submit that traffic emissions should have been added to the predictions. Air standards legislation should have been the definitive requirement, rather than the guidance in the Design Manual for Roads and Bridges (DMRB). [10.13]

13.74 As a requirement of the Environmental Permit (EP), the applicants would be required to demonstrate that the eRCF would not have a significant impact on local air quality. Notwithstanding this, the applicants point out that the environmental assessment already undertaken has demonstrated that the impact on air quality would be acceptable. Dispersion modelling has been used to predict airborne ground level concentrations of emissions from the stack. Certain emissions would be continually monitored, whilst others, which cannot be monitored continuously, would be monitored on a regular basis. The impact on air quality from stack emissions would be minimised by the use of exhaust gas scrubbing facilities and filters. No visible plumes are predicted to be emitted from the stack. [6.48, 6.51, 6.112, 6.114, 6.116]

13.75 The reception, shredding and sorting of waste, and the MBT processes, would be carried out within buildings which would operate under negative air pressure, thereby allowing odours and dust generated by these processes to be dealt with within the IWMF. The continuous 24 hour operation of the plant would ensure that the holding and storage times of unprocessed waste would be minimised, which would help to reduce the amount of odour generated within the plant. I am satisfied that current pollution control techniques would ensure that odour, dust and bio-aerosol emissions from the operations would not cause harm to human health or local amenity. [5.24]

13.76 As regards vehicle emissions, I am mindful that the total number of HGV movements associated with the operation of the proposed eRCF would not exceed 404 per day. Nevertheless, an assessment of the air quality impacts due to this traffic has been undertaken using the DMRB methodology. This demonstrated that traffic related pollutant ground level concentrations would be very small, even if it were assumed that all of the traffic associated with the IWMF accessed the site from an easterly or westerly direction. Although SWFOE argues that air standards legislation should have been the definitive requirement, I am mindful that the number of HGV movements would not increase from that already permitted for the RCF. Notwithstanding this, the DMRB assessment shows that the impact of vehicle emissions on air quality would not be significant. [6.117, 10.13]

Litter

13.77 A number of objectors are concerned that the proposal would lead to problems of litter and would attract vermin. However, waste would be delivered in enclosed vehicles or containers and all waste treatment and recycling operations would take place indoors under negative air pressure with controlled air movement regimes. I consider that these arrangements would ensure that litter problems would not arise and that the operation would not attract insects, vermin and birds. [5.24, 11.8]

Light Pollution

13.78 Many objectors are concerned that the eRCF would cause light pollution in an area that is light sensitive. However, outside the working hours of 0700 to 1830

there would be no external lighting, other than that used on an infrequent and intermittent basis for safety and security purposes. The LCG is sceptical as to whether such an arrangement would be practical. However, I see no reason why the plant could not be operated in this way. Internal lights would either be switched off or screened by window coverings during night time operations. Moreover, it is intended that external lighting levels would have an average luminance of 5 lux. The applicants indicate that external lighting units would be sited a maximum of 8m above finished ground level and that the use of flat glass luminaries at 0° tilt would produce no upward light. Given the depth of the excavation in which the buildings would be sited, it would appear that most lights would be sited below surrounding ground level. Moreover as the proposed extension to the existing access road would be constructed in cutting, lights from vehicles travelling to and from the eRCF on this section of the road would be screened from view. [6.83, 6.84, 8.44-47, 9.29, 11.13, 12.16]

13.79 Nevertheless, I am mindful that there is little or no artificial light at present in the vicinity of the site and that the area is valued by local residents for its clear skies in terms of light pollution. Even with the measures proposed by the applicants, it seems to me that the development could well create some light pollution and thereby cause some detriment to the amenities of the area in this respect. However, I consider that the proposed lighting arrangements, (which could be adequately controlled by condition as discussed in paragraph 13.153 below) would limit this impact to an acceptable level. In the wintertime there would be some impact during the hours of 0700 to 1830, but this would be kept to a minimum by the proposed methods of external lighting. Outside those hours, light pollution would occur on a relatively infrequent basis for short periods. As I indicate below, I am satisfied that Condition 44 would enable ECC to ensure that the potential for light spillage would be minimised.

Outlook

13.80 I deal with the visual impact of the development on the landscape at paragraphs 13.23 – 13.31 above. The siting of the IWMMF below ground level would significantly reduce the visual impact of the proposed building that would otherwise occur. Moreover, the proposed dark colour and green roof of the main structure would make the buildings recessive and help them to blend into the background. The roof of the proposed IWMMF and the stack would be visible from properties on the eastern edge of Silver End, from Sheepcotes Lane and Cuthedge Lane. Sheepcotes Farm is probably the closest to the site, being about 600 metres to the west. However, that dwelling is screened from the site by tall conifer hedging and is situated close to Hangar No 1 on the airfield, and the existing telecommunications tower. It seems to me that the development would have little impact on the outlook from this dwelling. [6.78]

13.81 There are a number of dwellings in Silver End from which the site would be visible, including the listed dwelling known as Wolverton. However, these dwellings are at least 1km from the application site. Bearing these distances in mind and the intervening vegetation, I consider that the development would not have a serious impact on the outlook presently enjoyed from these dwellings. In reaching this conclusion, I have had the benefit of visiting the area on a number of occasions and the evidence presented in relation to the various montages.

13.82 Dwellings such as Herons Farm, Deeks Cottage, and Haywards Farm are sited off Cuthedge Lane to the north of the application site. There would be a noticeable deterioration in the existing view from Deeks Cottage. The applicants recognise that Deeks Cottage would experience moderate adverse visual impacts as a result of the proposed facility during construction and the early years of the facility's operation, although they consider it to be the only property that would be affected to such an extent. Herons Farm appears to be partially screened from the application site by a bund presently in place to screen the existing quarrying operations, although this bund is likely to be removed in due course. These dwellings are between about 700m and 1km from the site of the proposed IWMF. Although there would be some detrimental impact on the outlook from these properties, I again consider that it would not be so serious that planning permission should be withheld for this reason. Given the distances between the properties, the flat nature of the intervening ground and the measures taken to reduce the visual impact of the development, it seems to me that the proposal would not be an overbearing or unacceptably intrusive feature in views from these properties. [2.13, 6.79, 8.20, 9.10, 9.11, 9.13]

13.83 Views of the top of the proposed stack would be visible from properties to the south of the application site in the vicinity of Western Road and Parkgate Road. However, these dwellings are well over 1km from the application site and in most cases there are significant blocks of woodland between the dwellings and the site. I consider that the views of the top of the stack that would arise from this direction would have no serious impact on the outlook from these dwellings.

13.84 Long distance views of the development would be possible from some locations on high ground to the north of the A120. Similarly, long distance views of the top of the proposed stack would be possible from some properties between Coggeshall Hamlet and Kelvedon. However, the views of the development would be so distant that it would have no significant impact on the general outlook from these properties. [8.21]

Conclusion on impact on living conditions

13.85 There would be some detrimental impact on the living conditions of occupiers of residential properties in the locality. There would be an increase in the level of noise in the area, although this would primarily be confined to the construction phase and even then would be well within acceptable limits. There would also be some impact on the tranquillity of the area and a small increase in light pollution, although these would be limited and minor. I am satisfied that air quality could be adequately controlled and there would be no noticeable emissions of dust or odour. The outlook from a small number of properties would be detrimentally affected, but again the impact would be relatively minor. Overall, I conclude that the proposal would not have an unacceptable impact on the living conditions of local residents.

x. The risks to human health

13.86 Many local residents have expressed fears that the eRCF would lead to deterioration in air quality and would present a risk to human health. The SWFOE argues that dioxins cannot easily be continuously monitored and escapes could occur between monitoring sessions. However, the applicants point to the advice in PPS 10

that modern, appropriately-located, well-run and well-regulated, waste management facilities operated in line with current pollution control techniques and standards should pose little risk to human health. The human health modelling presented in the Addendum ES indicates that the risks to human health from the proposed eRCF would be negligible. The predicted daily exposure for all contaminants of potential concern is less than the relevant toxicological benchmark. [6.112, 10.13, 10.46, 11.14]

13.87 Dispersion modelling, used to predict airborne ground level concentrations, shows that with a stack height of 35m (above existing ground levels), the predicted pollutant concentrations would be substantially below the relevant air quality objectives and limit values, except for arsenic. However, the assumed emissions of arsenic were substantially overestimated because, for the purposes of the model, the emissions of arsenic were assumed to be at the same level as the whole of the group of nine metals within which it fell in the assessment. This was an extreme worst case assumption, and considered by the applicants to be implausible, as it could result in an emission nine times the emission limit for the group of metals as a whole. The applicants argue that it would be more appropriate to specifically limit the emissions of arsenic, as opposed to increasing the height of the stack. [6.113]

13.88 Although this approach would rely heavily on the monitoring of emissions to ensure that there is no risk from emissions of arsenic, I am mindful that the assessment uses a new and far more stringent air quality limit for arsenic, which is not due to be implemented until 2012. Moreover, realistic estimates of arsenic emissions based on sampling and analysis of emissions from waste incinerators elsewhere show that arsenic levels would be significantly lower than that assumed in the dispersion modelling assessment. I note that the EA and the Primary Care Trust have not raised objections to the proposed eRCF [6.114, 7.33]

13.89 The LCG and CG point out that there is a statutory requirement to ensure that air quality is not significantly worsened, yet the emission of contaminants from the IWMF would result in deterioration of air quality. I am mindful of the advice in PPS23 that planning authorities should work on the assumption that the relevant pollution control regime will be properly applied and enforced. As I conclude at paragraph 13.158 below, it is unfortunate that further progress has not been made in discussions between the EA and the applicants regarding the height of the stack that would be necessary. Nevertheless, the EA does not appear to have an objection in principle to the IWMF. The applicants point out that as a requirement of the Environmental Permit (EP), they would have to demonstrate that the eRCF would not have a significant impact on local air quality and human health. This could be achieved by means other than increasing the stack height. In fact, a dilute and disperse approach by using a taller stack is one of the least preferred methods for controlling the impact of industrial emissions. Preference is given to abatement and the reduction of emissions at source. The applicants submit that the CHP plant could operate at substantially more stringent emission limits, thereby providing an alternative option for reducing the impact of the plant on local air quality. [6.49, 8.41, 9.22]

13.90 With regard to traffic emissions, the CG points out that there are high levels of NO_x at the junction of the A12 and A120 at Marks Tey. It is one of 18 air quality hot spots in the county and the additional HGV movements associated with the IWMF would exacerbate this situation. However, the proposed 404 additional

HGV movements associated with the eRCF are the same as that proposed for the RCF, for which planning permission has already been granted. Although the DMRB screening criteria does not require a detailed air quality assessment in this case, an assessment was undertaken using the DMRB methodology as a result of concerns about possible changes in the split of traffic on the A120. Even with an extreme assumption that all of the development traffic accessed the site from a single direction, it was shown that development traffic would not have a significant impact on air quality.

13.91 The SWFOE is concerned that no predictions have been provided for PM_{2.5} and a limit value of 25µgms/m³ for PM_{2.5} is likely to be introduced into the EU Air Quality Directive before 2015. However, even if it were assumed that all particles emitted from the eRCF were comprised of the fine fraction (PM_{2.5}) the predicted maximum concentrations of such material would be 0.14 µgms/m³ which is significantly less than the target value of 25µgms/m³ and effectively negligible. [6.118, 10.13]

13.92 The Human Health Risk Assessment (HHRA) indicates that the risks to human health are negligible since the predicted daily exposure for all contaminants of potential concern is less than the toxicological benchmark. SWFOE questioned the exclusion of certain pathways from the HHRA, although the applicants had undertaken a survey beforehand to establish which pathways were likely to be realistic. This indicated that meat production does not take place in the immediate locality. Nevertheless, additional modelling was undertaken to include the ingestion of homegrown pork and beef, and milk from homegrown cows. Again, the analysis demonstrated that the risks to human health would be negligible. [6.119]

13.93 Despite the results of the assessments undertaken by the applicants, many local residents remain concerned about the potential health risk of emissions from the eRCF. Local residents' fears about the harmful effects on health of such a facility are capable of being a material consideration, notwithstanding that there may be no objective evidence to support such a fear. By itself, unfounded fear would rarely be a reason to justify withholding planning permission. Nevertheless, it seems to me that the anxiety caused by the potential risk of pollutants, even though the physical health risks may be negligible, could have an impact on the well being and the living conditions of local residents.

13.94 Many residents would like to see regular monitoring of air quality at specified receptor locations as a means of providing assurance regarding the risk of health from emissions at the plant. I can see merit in this approach but I have to accept that such measurements may not provide results which accurately reflect the impact of emissions from the eRCF. I consider the matter at paragraph 13.162 below and conclude that more meaningful and accurate measurement of emissions from the plant would be obtained by regular monitoring of emissions from the stack itself. This would have the advantage of providing emissions data for a wide area, rather than at a few specific locations, and would ensure that the collected data related to emissions from the plant. The S106 agreement would ensure that such information would be available to local residents by means of the proposed Site Liaison Committee. [6.114, 8.43, 12.23]

13.95 In conclusion, I am satisfied that the plant could be operated without causing any material harm to human health, and that this matter would be

adequately dealt with by the Environmental Permitting regime. Despite this, the concern of local residents regarding the risk to health, albeit unfounded, would remain as a detrimental impact of the development. Nevertheless, these fears would be ameliorated to some extent by the proposed arrangements for the results of monitoring of emissions to be provided to the Site Liaison Committee.

xi. Highway Safety and the Free Flow of traffic

13.96 As previously indicated, the impacts of the present proposal must be considered in the light of the extant permission for the RCF, which in my judgment provides a fall back position. In relation to the RCF there would be no control on the daily number of HGV movements by means of a condition. Notwithstanding this, the applicants indicate that the eRCF would generate no more than the 404 daily HGV movements anticipated in relation to the RCF. In this respect it is arguable that the proposal would have no greater impact than the scheme already permitted. [6.68]

13.97 The access road that would serve the development would link directly onto the A120, which is part of the trunk road network. The S106 agreement provides for traffic routeing arrangements to ensure that HGVs travelling to and from the site use a network of main roads and thereby avoid the local road network. Local residents argue that the A120 is frequently congested and the additional traffic generated by the development would exacerbate this situation. Moreover, it is argued that it would not be practical to enforce the traffic routeing arrangements and that HGV drivers would use the local road network to gain access to and from the site where a shorter route was available, or when the main road network was congested. The LCG submits that vehicles would be arriving from a wide range of places and that the eRCF operator would not have control over many of these vehicles. [8.37, 9.15, 10.38, 10.39, 10.44, 10.46]

13.98 I agree that many of the local roads in the area are narrow, winding and unsuitable for use by HGVs. However, the applicants point out that the eRCF would not be open to the public and the operator would have control over deliveries and the despatch of material to and from the proposed plant. Under such circumstances, I am satisfied that it should be possible to ensure that traffic routeing arrangements are enforced. [6.68, 9.17]

13.99 There is no doubt that volumes of traffic on the A120 are such that the road has reached its practical capacity and sections are regularly congested. However, as the applicants point out, for the most part this congestion occurs at peak times and the road should not necessarily be regarded as unable to accommodate additional traffic. During my site visits, I saw queues developing at peak times, particularly near Marks Tey where the A120 meets the A12. However, on most of these occasions, traffic continued to move, albeit slowly, and the levels of congestion were not unduly serious. Nevertheless, these were merely snapshots on particular days and I have no doubt that far more serious congestion occurs on a not infrequent basis. [6.71, 8.32, 9.16]

13.100 Notwithstanding this, it is likely that much of the traffic associated with the eRCF would travel outside peak periods and would not add to congestion problems. It must also be remembered that by restricting daily HGV movements to no more than 404, the proposal would not increase volumes of traffic over and above the figures associated with the RCF which has already been approved.

13.101 Many objectors doubt whether the eRCF could operate at full capacity with only 404 daily HGV movements. I have some sympathy with this argument as it was previously anticipated that the RCF would also generate 404 daily HGV movements, yet the RCF would involve the movement of 906,000tpa of material compared to the 1,272,075tpa associated with the eRCF, an increase of about 40%. The applicants have derived the HGV movements for the eRCF on the assumption that each lorry would be carrying the maximum weight permitted for that vehicle, arguing that there is no reason to believe that the operator or hauliers would wish to operate on the basis of sub-optimal loads. This is a logical argument, although I have some concern as to whether the calculations are somewhat theoretical and idealised, and do not make sufficient allowance for contingencies. [6.68, 8.28, 8.30, 11.7]

13.102 The applicants submit that there is no evidence that any specified number of HGV movements greater than 404 would have materially different or more serious implications in highways and transportation terms. This may be so, although it seems to me that the Highways Agency may well have required further information when consulted on the scheme, if the generation of HGVs was anticipated to be significantly greater than 404 movements per day. Notwithstanding this, the applicants have willingly agreed to the proposed planning conditions limiting the number of daily HGV movements to 404, and are satisfied that the eRCF could be operated economically and viably with such a restriction. They argue that the number of vehicle movements can be minimised by the use of 'back hauling' (i.e. using the same lorries that deliver material to the site to carry material from the site). [6.69, 8.31]

13.103 The site access road has junctions with Ash Lane and Church Road. Although there have been accidents at these junctions, it appears that the number of incidents have been few in number and it does not seem to me that the accident record is of serious concern. I note that the Highway Authority did not object to the application. The proposal would result in improvements at the junctions, and given the low volumes of traffic on the two local roads, I consider there is no reason to justify withholding planning permission for the development on the grounds of road safety at these junctions. [6.73, 6.74, 8.35, 9.18, 11.2]

13.104 For all of the above reasons, I conclude that the proposed restriction on the number of HGV movements is reasonable and appropriate and that the development would not have an unacceptable impact on highway safety and the free flow of traffic on the road network.

xii. The impact on the local right of way network

13.105 The network of footpaths in the area is well used. Three footpaths, including the Essex Way, cross the existing quarry access road. The proposed extension of the access road would cross footpath 35. Footpath 8 passes alongside the complex of buildings at Woodhouse Farm. [2.15, 8.18, 9.4]

13.106 Walkers on footpath 8 would pass close to the IWMF. Apart from seeing the stack, they would also, when approaching the site from the south, be likely to see the rear of the AD tanks, particularly in wintertime when many trees would have lost their leaves. A hedge would partially screen views from footpath 35, although it

is likely that walkers on footpath 35 would, on occasions, have views of part of the front of the building, which would be some 200m wide and 20m in height. The applicants acknowledge that users of footpath 35/68 to the north of the site would experience moderate adverse visual impact at Year 1 of operation, with other paths in the area assessed as minor adverse impact. [6.79, 8.18, 9.25, 9.31]

13.107 As indicated above, I have no doubt that the development would have some harmful effect on the present rural character of the area. This impact would be apparent to users of the footpath network. Moreover, the comings and goings of vehicles serving the site and activities at the site would also have a detrimental impact on the present tranquillity of the area. Nevertheless, these impacts would be ameliorated by the various mitigation measures such as hedge and woodland planting; the proposed dark colour of the building; the proposed green roof; the siting of the extension to the access road and the IWMF building itself within cutting (which would help to control noise and visual impact); and the intention to undertake all operations within environmentally controlled buildings. Overall, I consider that the impact on the right of way network would be detrimental but not to an unacceptable degree. [6.48, 6.89, 6.120]

xiii. Ground and surface water

13.108 The SWFOE submits that the proposed MDIP would require water over and above that obtained from recycling and rainwater collection. It is argued that water abstraction could have an impact on the River Blackwater and that a water study should have been undertaken to assess the impact of water requirements. Other objectors are concerned that the proposed eRCF could result in contamination of ground and surface water. [10.7, 11.9, 11.14, 12.28]

13.109 I am mindful that the proposals include the on-site collection, recirculation and treatment of water, minimising the need for fresh water. All surface water outside the buildings would be kept separate from drainage systems within the buildings. All drainage and water collected within the buildings and used in the Pulp Facility would be treated and cleaned within the Waste Water Treatment facility. It is anticipated that the IWMF would be largely self sufficient in water, by utilising rain/surface water, and would only require limited importation of water. This could be sourced from New Field Lagoon, which is part of the existing drainage system for the restored mineral working to the north, from licensed abstraction points, or obtained from the utility mains. Moreover, ground water monitoring would be undertaken and the results made available to the Site Liaison Committee. Bearing in mind the proposed methods for dealing with water; the monitoring that would be undertaken; the 1.5 km distance between the proposed IWMF and the River Blackwater; and the geology of the area with its significant clay strata, I conclude that the development could be built and operated without causing harm to the River Blackwater or causing contamination to groundwater. [5.27, 7.35,]

13.110 A number of objectors are concerned that the excavations involved in the development would result in the dewatering of soils to the detriment of existing trees and vegetation. However, the geology of the area suggests that existing trees rely on surface water, rather than ground water in the substrata. Clay is the dominant material in the soils beneath the woodland blocks. Woodland growth is separated from the underlying sand and gravel by over 6m depth of boulder clay. The trees are not dependent upon the groundwater locked in any aquifer below ground, but are

reliant upon moisture held within the subsoil and top soil that overlies the boulder clay. Any localized lowering of the water table as a result of excavations would have little impact on vegetation. [6.80, 8.26, 11.4, 12.20]

xiv. Loss of agricultural land

13.111 The development would result in the loss of almost 12ha of Grade 3a agricultural land, and in this respect the proposal is in conflict with local and national planning policies. However, there would be a similar loss if the RCF were constructed. Moreover, the impact of such a loss of best and most versatile agricultural land must be balanced against other sustainability considerations. [6.67, 6.105, 8.55, 8.58, 11.4, 11.13]

13.112 Although a loss of such agricultural land should be avoided where possible, ECC points out that the emphasis in the last 5 years has moved to soil resource protection. Soils stripped from agricultural areas would be re used sustainably. It would be used on screening bunds; on new areas of woodland and grassland; and to enhance the restoration of agricultural areas within the adjacent quarry. The proposed loss of Grade 3a agricultural land represents 0.3% of the Bradwell Hall Estate holding. Moreover, Woodhouse Farm is unoccupied, and could not form a 'commercial unit of agriculture' under the present agricultural cropping regime. It is also noteworthy that Natural England did not object to the proposal. For all these reasons, I conclude that the loss of Grade 3a agricultural land in this case is not an overriding issue. (6.105, 7.29)

xv. Habitats, Wildlife and Protected Species

13.113 About 19.1ha of open habitats would be lost. However, a large proportion of these are of low ecological value being arable land, species poor semi-improved grassland and bare ground. Mitigation measures include the planting of 1.8ha of new species rich grassland together with the provision of a further 1ha of managed species rich grassland to the east of Woodhouse Farm outside the Planning Application area. Moreover, the green roof on the main buildings of the proposed eRCF would be about 5ha in area and allowed to establish into open habitat. Bearing in mind that the new habitats would be the subject of an Ecological Management Plan, I agree with the applicants that the overall residual impact of the development is likely to be positive in terms of the value of open habitat. [5.20, 6.89, 6.90, 7.28, 11.2, 11.5].

13.114 Although between 1.6 and 1.7ha of existing woodland would be lost, the proposal includes planting of approximately 3.4ha of additional woodland and 2kms of new hedgerows. Objectors are concerned that the rate of growth of new vegetation is unlikely to be rapid and point out that the applicants accept that it would take up to 40 years to effectively replace some of the lost woodland. In the short term, I agree with objectors that the loss of woodland is likely to outweigh the positive impacts of the new planting. However, I note that the retained woodland would be managed to improve its diversity and screening quality. Bearing this in mind and the significant amount of new woodland and hedgerow to be planted and managed, it seems to me that the overall effect would be positive within a reasonably short space of time, despite the time necessary for woodland to provide significant screening. Certainly, in terms of habitat value the provision of additional

woodland and hedgerows would outweigh the loss of existing woodland within a short period. [5.19, 6.78, 6.90, 6.92, 7.28, 8.17, 8.20, 9.27]

13.115 With regard to protected and otherwise notable species, surveys have revealed that several species of bat utilise the site. In addition a small population of great nested newts were found and a range of bird species breed in the area. Brown hares can be found on the site. However, surveys for badger revealed only the presence of latrine sites. [6.88, 9.4]

13.116 Without mitigation the development would have a detrimental impact on protected species. However, the development includes a range of mitigation, compensation and enhancement measures. A number of ponds would be managed in the interests of great crested newts; bat boxes and various nesting boxes for birds would be provided; and buildings would be refurbished to provide specific roosting opportunities for bats. In addition habitats would be managed and created to provide foraging opportunities. I am satisfied that these and other measures would ensure that disturbance to protected species would be minimised or avoided. [6.88, 6.89]

13.117 Bearing in mind that the proposal includes the management of existing and proposed water bodies; the creation and management of new habitats; and the planting of woodland and hedgerows, I consider that overall it would enhance the bio-diversity of the area. [7.28]

xvi. The impact on Listed Buildings and the Silver End Conservation Area

13.118 When considering development proposals which affect a listed building or its setting, Section 66(1) of the Planning (Listed Buildings and Conservation Areas) Act 1990 requires that special regard be given to the desirability of preserving the building or its setting or any features of special architectural or historic interest which it possess. There can be no doubt that the proposed development would cause some harm to the setting of the Listed Building complex at Woodhouse Farm. The close proximity of such a large development, with its associated lighting and parking facilities, and the visible presence of the chimney stack would have some detrimental effect upon the rural setting which the building presently enjoys. In addition the movement of such a large number of HGVs in the locality would be likely to create some noise and disturbance and generate a sense of activity in the immediate locality. However, I must bear in mind the fall back position arising from the extant planning permission for the RCF and the fact that the existing rural character of the area is already compromised to some extent by the presence of the remnants of the former airfield; the nearby scrapyards at Allshot's Farm; and the ongoing mineral workings at Bradwell Quarry which are likely to continue until 2021. [2.5, 2.7, 4.4, 8.18, 8.19, 11.10]

13.119 More importantly, I am mindful that the Woodhouse Farm complex is in an extremely poor state of repair and that the site of the complex is overgrown, derelict and untidy. The proposal to refurbish the buildings and bring them into meaningful use would, in my judgment outweigh any harmful impact on the setting of the complex that would be caused by the IWMMF development. [2.6, 7.43, 9.7]

13.120 The setting of the Listed Building at Allshot's Farm is already severely compromised, in my judgment, by the presence of the nearby vehicle scrapyards.

Bearing in mind that this building is a further 400 metres beyond the Woodhouse Farm complex, I consider that the presence of the proposed development would have little or no impact on Allshot's Farm and its present setting would be preserved.

13.121 The listed building at Sheepcotes Farm is about 600m from the proposed IWMF. At present there is a tall conifer hedge at the rear of the plot which screens the farm buildings from the airfield. Moreover, the setting of the building is already influenced by the presence of the nearby former airfield hangar; the existing telecommunications tower; and the former runways of the airfield. The construction and operation of the IWMF would have some detrimental impact on the setting of Sheepcotes Farm. However, given the distance to the application site, the present conifer screening and the impact of existing development, I conclude that the effect of the proposed IWMF on the setting of the building would be minimal. [2.10, 9.13]

13.122 The other listed buildings in the locality, and the edge of the Silver End Conservation Area are at least 1km from the site of the proposed IWMF. Given these distances; the siting of the proposed IWMF and access road extension below existing ground levels; and existing intervening vegetation, which in some cases would provide significant screening, I am satisfied that the IWMF and its operations would have only a minor impact on the setting of these buildings and the conservation area. Moreover, because of the proposed hedgerow and woodland planting, and other landscaping works associated with the development, I consider that the scheme as a whole would preserve the settings of these buildings and of the conservation area. [2.9, 2.11, 2.12, 7.46, 9.12, 9.26, 11.15]

13.123 Section 72 of the above Act requires that special attention shall be paid in the exercise of planning functions to the desirability of preserving or enhancing the character or appearance of a conservation area. Paragraph 4.14 of PPG15 indicates that the desirability of preserving or enhancing the area should also be a material consideration when considering proposals which are outside the conservation area but which would affect its setting, or views in or out of the area. Bearing in mind my conclusion that the scheme as a whole would preserve the setting of the conservation area, I am satisfied, for the same reasons that it would also preserve the character and appearance of the Silver End Conservation Area. [6.137, 9.6, 9.8]

xvii. The historic value of the airfield

13.124 A number of objectors are concerned about the impact the development would have upon the historic value of the airfield. However, much of the airfield and its military buildings have disappeared. The applicants submit that the airfield is not a particularly good surviving example of a World War II military airfield. I have no detailed evidence which contradicts this view. The airfield facilities themselves are not designated or protected in any way. [6.77, 6.138, 10.36, 11.15]

13.125 I note that the provision within the S106 agreement relating to the Woodhouse Farm includes for an area to be set aside within the refurbished complex for a local heritage and airfield museum. In my opinion, this would be a practical method of recognising the contribution made by the airfield to the war effort and would be commensurate with the historic value of the site. I can see no justification for withholding planning permission at this site because of its historic value as an airfield. [5.13, 12.24]

Other matters

13.126 With regard to the suggestion put forward by Feering PC that provision be made for a flood lagoon at Bradwell to relieve flooding problems in Coggeshall, Kelvedon and Feering, I agree with the comments made in the ECC committee report of 24 April 2009 (Document CD/2/12A), that to require a contribution for such development would not be in accord with the criteria for planning obligations set out in Circular 05/2005. The application site is not located in a flood risk area and the scheme would have no impact upon the flows of the River Blackwater. [11.23]

Mitigation measures

13.127 As indicated above, the development would have some harmful impact on the environment. It would result in a loss of existing habitat, both open and woodland. It would generate a degree of activity, noise and disturbance, light pollution, potentially some odour, and would be detrimental to air quality as a result of the emissions from the plant and the HGV traffic that would be generated. It would result in a loss of Grade 3a agricultural land and would have a visual impact on the landscape, not least from the proposed chimney stack. The perceived risk to human health also represents a negative impact, albeit that I am satisfied that any such risk would be negligible and does not justify such fears.

13.128 In my judgment, the proposals include measures that would substantially mitigate these impacts. Moreover, the imposition of suitable conditions, IPPC control and the provisions of the S106 agreement would ensure that such impacts were kept within acceptable limits. In particular, I am mindful that the additional woodland planting, the proposed hedge planting and provision of replacement habitats, including the lagoon, the green roof of the building, and other features would mitigate against the loss of woodland and habitats. These features, in combination with the siting of much of the access road within cutting, the main building within an excavated area, the design of the main building in the form of two vast hangars, the siting and partial screening of the stack, would significantly mitigate the visual impact of the development within the landscape and the impact on the character of the area.

13.129 It seems to me that the impacts should be considered in the light of the extant permission for the RCF which provides a fall back position. On this point, I am mindful that there would no control on the number of HGV movements generated by the RCF in terms of a planning condition.

Overall conclusion

13.130 Although the development would cause harm in a number of ways, I consider that the proposed mitigation measures would ensure that such harm would be minimised to such an extent that there would be no unacceptable harm either to the environment or to the local population. On the other hand, the proposal would provide a range of important benefits, not least a means of undertaking waste management in a sustainable manner which would assist in meeting the challenging waste management targets set out in the EEP. Overall, I consider that the scheme's conflict with a small number of planning policies is far outweighed by the support given by a range of other planning policies and, on balance, it seems to me that the proposal is in accord with the development plan and Government guidance.

Conditions and obligations

13.131 I shall recommend that planning permission be granted for the eRCF subject to conditions. In the event that the SoS agrees and decides to grant planning permission it seems to me that such permission should be subject to the conditions set out in the central column of Appendix B of this report. The appendix is based on the final draft of the suggested list of conditions put forward by ECC (Document ECC/8). I have amended the list of conditions in the central column to reflect my comments below. In general, the conditions are reasonable and necessary and meet the tests set out in paragraph 14 of Circular 11/95. Where I make no comment on a condition set out in ECC/8, I consider that condition to be appropriate and necessary for the reasons set out in Appendix B and Document ECC/8.

13.132 I consider that a 5 year limit for commencement of the development as set out in Condition 1 is appropriate and realistic, bearing in mind the nature of the development and the need for an Environmental Permit to be obtained before work could realistically commence on site. Condition 2 is necessary to clarify the details of the development and to avoid any doubt as to the relevant drawing numbers. I have added this reason to the schedule.

13.133 It is necessary to limit the maximum number of HGV movements as set out in Condition 3, because no assessment has been made of the impact of a larger number of additional HGV movements on the trunk road network and there is no dispute that the network already suffers from congestion from time to time [12.3].

13.134 In the interests of road safety and to avoid congestion on the local road network it is important to take steps to minimise the likelihood of HGVs using local roads to gain access to and from the site. The traffic routing provisions of the S106 agreement would make an important contribution to this objective. To help make those provisions viable, I consider that it is necessary to log various details relating to each vehicle visiting the site. I therefore consider that it is necessary for Condition 5 to be amended to read that 'A written record of daily HGV movements into and out of the site shall be maintained by the operator from commencement of the development and kept for the previous 2 years and shall be supplied to the Waste Planning Authority within 14 days of a written request. The details for each vehicle shall include the identity of the vehicle operator, the type and size of the vehicle, the vehicle registration number, and an indication of whether the vehicle is empty or loaded.' [12.4].

13.135 The words 'Figure1-2 annexed hereto' should be deleted from Condition 8 and replaced with 'application drawing Figure 1-2'. The drawing is listed in Condition 2 and there is no need to attach the drawing to the formal grant of planning permission.

13.136 'Plan 1' referred to in Condition 13 can be found in the S106 agreement. The wording in the condition should be amended to reflect this.

13.137 Condition 14 seeks to control the design of the stack. The applicants seek the SoS's views on the acceptability of a 40 m high (above existing ground level) stack (rather than the 35 m high stack applied for) in the event that the EA requires a higher stack as part of the EP procedure. Although Condition 14 relates to

the design of the stack, Condition 56 controls the height of the stack and therefore Condition 14 would be unaffected by any such change in height.

13.138 I do not consider that it is appropriate to impose a condition requiring the buildings at Woodhouse Farm to be brought into a good state of repair. I agree with ECC that such works may require Listed Building Consent and a further grant of planning permission. It would be unreasonable to impose a condition requiring such development, as the applicants would not have control over the decision which permitted such development. I am satisfied that the matter is best covered by the provisions of the S106 agreement. [12.5]

13.139 I have concerns as to whether Condition 16 meets the tests for conditions set out in Circular 11/95, particularly in relation to necessity and its relevance to the development. I appreciate that BDLPR Policy RLP94 indicates that major development will make provision for the commissioning of suitable and durable public works of art, and that the site can be seen from the public footpath. However, the development would not be located in a public place and it cannot be readily described as falling within the public realm. Moreover, I am not convinced that a work of art at this location is either relevant to the development or would make a positive contribution to the environment and the wider community. For all these reasons, I consider that Condition 16 should not be imposed. [12.6]

13.140 I consider that Condition 17 should be imposed. It is important that all possible measures are taken to ensure that there is no visible plume from the stack. Not only would a plume give the area a somewhat industrialised character, but it would unnecessarily increase fears about the possibility of environmental pollution and risks to human health, no matter how unfounded those fears may be. I am not convinced that these are matters that would necessarily form part of the EP regime and would be dealt with by the EA. I am mindful of the LCG's concern that the condition does not categorically state that there will be no plume. However, it seems to me that the Condition in its present form adopts a reasonable and pragmatic approach to the matter. [12.7]

13.141 With regard to Condition 21, the LCG is concerned that the application drawings do not identify any parking areas for HGVs. However, I support the approach that substantial provision should not be made for the parking of HGVs in the open air on the site. To encourage such parking would not be beneficial to the character of the area. Condition 21 should remain unaltered. [12.8]

13.142 As the development has been partly promoted on the argument that the excess electricity produced at the plant would be sold to the National Grid, I have some sympathy with the LCG's submission that a condition should be imposed requiring such electricity to go to the National Grid. However, it is unreasonable to impose a condition requiring the applicants to meet a requirement which is not entirely within their control. It would plainly be in the applicants' interests to sell the excess electricity and I conclude that it would be unreasonable to impose such a condition on this issue. [12.9]

13.143 In relation to Condition 28, I agree with the applicants that restricting the sourcing of SRF from outside Essex and Southend, but within the remainder of the East of England for a period of only one year from the date of agreement with the WPA, could lead to problems of uncertainty. The ability to enter into contracts for

such a limited period could unreasonably handicap the applicants in the operation of the plant. Nevertheless, it is important that all possible efforts are made to ensure that such material is sourced from within the local area in the interests of the proximity principle and the ability of the plant to deal with local waste arisings. Changes in the availability of supply in the locality should therefore be accommodated within a reasonable period. It seems to me that a reasonable and realistic approach would be to adopt a time period of 3 years in this case. I therefore consider that the reference to '[one/five] years' in paragraph (ii) of Condition 28 be amended to 'three years'. [12.10]

13.144 Condition 30 is a source of conflict between the parties. The applicants argue that it would not be possible to source 80% of the feedstock for the MDIP from within the region and the relaxation contained in the condition would therefore have to operate from the outset. In this respect the condition is unreasonable. Moreover, it is pointed out that the MDIP would be a unique facility in the UK. Policy WM3 of the East of England Plan indicates that allowance can be made for specialist processing or treatment facilities to deal with waste primarily from outside the region where there is a clear benefit.

13.145 On the other hand, I am mindful that the figure of 80% is derived from the application. As ECC points out, the regulation 19 information provided by the applicants stated that the Region could provide a significant proportion, if not all of the paper feed stock for the MDIP. Moreover, Policy WM3 places some weight on a progressive reduction of waste imported into the East of England.

13.146 It seems to me that the MDIP would be of benefit in a number of ways. It would provide a means of recycling high quality waste paper in a beneficial way. It would reduce the need to use virgin fibre for making high quality paper and in due course it would probably encourage an increase in the amount of high quality waste paper that is recovered for recycling. In these respects, the facility could be of benefit to an area larger than the East of England region.

13.147 I have some concern that the applicants did not make it clear at the outset that in reality more than 20% of the feedstock would have to be sourced from outside the region. On the other hand, it would have been unduly optimistic to expect that nearly all the relevant potential feedstock in the East of England would become available for the MDIP.

13.148 If planning permission is to be granted, the condition should be realistic and reasonable. Moreover, it seems to me that there are a number of somewhat competing objectives in relation to this condition. Firstly, the distance that waste is transported should be minimised, in accordance with the proximity principle. Secondly, and linked to the first objective, the operators of the facility should be encouraged to source locally produced feedstock wherever possible and thereby contribute to the objective of self sufficiency in dealing with waste. Thirdly, the MDIP must be viable if the benefits which it could provide are to be achieved. The applicants argue that a restriction on feedstock in terms of the distance from source, rather than being based on the regional boundary would be more realistic, practical and capable of meeting the objective of minimising the distance waste is transported. A figure of 150 km is suggested.

13.149 There are clearly merits in this approach. However, in view of the proximity and overwhelming size of London, I am concerned that this approach could result in the vast majority of the waste paper feedstock being transported from London thereby reducing any incentive to encourage the sourcing of feedstock from within the region. I therefore support the general approach adopted by ECC, although I do not agree that a requirement for 80% of the feedstock to be sourced in East of England would be reasonable, even if the terms of the condition required ECC to authorise a greater proportion of imports if the 80% target could not be met. The applicants do not expect the facility to deal with waste primarily from outside the region and therefore it seems that a requirement for 50% of the waste to be sourced from within the region would be reasonable given the flexibility provided by the suggested condition. I conclude that Condition 30 should be imposed, subject to the figure of '20%' in paragraph (i) being replaced by '50%' and the figure of '80%' in paragraph (ii) being replaced by '50%'. I have amended two typing errors in the second paragraph, replacing 'operation' with 'operator' and 'cad' with 'card'. [6.37,6.38, 12.11, 12.12]

13.150 I have concern about the hours of working on a Sunday that would be permitted during construction by Condition 35. However, I am mindful that the development is sited some distance from the nearest residential dwellings and once excavation is completed a large proportion of the work would be undertaken below natural ground levels. Moreover, a similar condition applied to the RCF permission. Bearing these points in mind, the substantial nature of the development and the aim of completing construction within about 2 years to meet the likely demands for the facility, I conclude that Condition 35 should be applied in its present form.

13.151 I agree that Condition 38 should specify where noise measurements are to be made and that the following words should be included in the condition: 'Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects'.

13.152 PPS10 makes it clear that when assessing planning applications for waste management facilities consideration should be given to the likely impact of the proposal on the local environment and on amenity. Although the pollution control regime may well result in the application of noise limits to the processes that would take place at the eRCF, it is reasonable for the planning system to seek to control noise to ensure that residential amenity is not harmed. The LCG is concerned that Conditions 39 and 40 allow higher noise levels than predicted by the applicants. That may be so, but it seems to me that the limits applied by those conditions are reasonable and should ensure that residential amenity is not significantly harmed by noise generated at the site. Condition 42 allows higher levels of noise for temporary periods, but this is intended to allow operations such as the construction of bunds which in themselves would assist in reducing the impact of the development on residential amenity. I consider that the noise levels set out in these conditions are reasonable and that the suggested conditions should be imposed. [12.15]

13.153 With regard to Condition 44, I am mindful that the applicants have indicated that external lighting units would be sited a maximum of 8 m above finished ground level and that the use of flat glass luminaries at 0° tilt would produce no upward light. However, I am satisfied that Condition 44 would enable ECC to ensure that the potential for light spillage would be minimised and I accept ECC's

argument that excessive specification before a final lighting scheme is adopted could be counter-productive. There are a number of factors to be taken into account, including considerations of average and peak levels of lighting and the number and siting of lighting units. For these reasons, I conclude that Condition 44 should remain in its present form. [6.83, 8.39-42, 12.16]

13.154 I agree with ECC that Condition 52 should be imposed. Firstly, the pollution control regime would not necessarily be applicable to the excavation and construction of the plant. Moreover, odour has the potential to cause significant harm to residential amenity and the environment, and it is not unreasonable that the planning system should have some control over this highly controversial issue which can be difficult to control and enforce if measures are not taken to provide control at the outset. Although there could well be some overlap between the planning and pollution control regimes on this matter, it is not unreasonable that the planning authority should be satisfied that appropriate measures have been taken to control fugitive odours before beneficial occupation of the IWMF is permitted. [12.17]

13.155 With regard to Condition 55, I agree with the applicants that it would be unreasonable to prohibit the works set out in the condition from taking place during the bird nesting season, if such work would not affect nesting birds. Condition 55 should remain in its present form.

13.156 Condition 56 indicates that the stack height should not exceed 85 m AOD (35m above existing ground level). The applicants consider it unlikely that a taller stack would be necessary to meet the requirements of the pollution control regime. Nevertheless, if a taller stack were required, a further planning application under Section 73 of the 1990 Act would be necessary. The applicants seek the SoS's view as to whether a taller stack, up to 90m AOD, would be acceptable. Clearly, it is a matter for the SoS whether he wishes to comment on this matter. Generally, he would not be expected to do so, particularly if insufficient information was before him. In this case, the appellants have put forward some evidence on the matter, including at least one montage of a 40m high (90m AOD) stack. Moreover, the LCG has presented some counter evidence, together with a number of montages of such a feature.

13.157 Overall, however, less information has been provided about the impact of a 40m high stack compared to that which has been presented in relation to a 35 m high stack. It would be expected that the detailed assessment of a 40m high stack would be as thorough as that for a 35 m high stack, and in this respect I consider that insufficient information has been submitted in relation for example to montages from various locations, an assessment of zone of theoretical visibility, and the opinions of all parties who may be affected by such development. Clearly, a 40m high stack would have a greater visual impact than a 35m high stack and in this respect the balance of harm versus the benefit of the eRCF would be affected.

13.158 I am mindful that the advice in the Defra document entitled 'Designing Waste Facilities' indicates that the required height of emission stacks should not be underestimated (Doc CD/8/9 Page 74). It is unfortunate that further progress on this matter has not been made in discussions between the EA and the applicants. I appreciate that only the proposed operator can apply for an Environmental Permit, as indicated in the e-mail from the EA dated 5 October 2009 (Document GF/28) and that this requirement has prevented the applicants from making a formal application

to the EA. Although detailed discussions have obviously taken place, it seems to me that insufficient progress has been made, for whatever reason, because such an important issue as the required height of the stack has not been resolved. The advice in paragraph 28 of PPS10 that waste planning authorities and pollution control authorities should work closely to ensure integrated and timely decisions under the complementary regimes has not been followed insofar as such an important matter has not been assessed in some detail by the EA. It is not for me to determine why the advice has not been followed, but the result is that important information, which ideally should have been presented to the inquiry, has not been available.

13.159 On the basis of the evidence presented to date, and my inspections of the site and its surroundings, it seems to me that the benefits of the eRCF proposal may well outweigh the harm that the development would cause even if a 40m stack were required. However, until a more thorough assessment is undertaken and the views of all those who may be affected by such a change in the proposal have been thoroughly canvassed, it seems to me that no firm conclusions can be reached. With regard to the existing proposals, Condition 56 is appropriate.

13.160 Turning to Condition 60, the LCG submits that the management and watering of trees adjacent to the proposed retaining wall should continue during the operational phase of the development. However, evidence submitted by the applicants suggests that the trees rely on surface water in the topsoil and subsoil rather than on ground water in the substrata and ECC considers that there is therefore no need to continue watering after construction is complete. It is arguable that the future maintenance of the trees would be adequately covered by the provisions of the management plan for existing and proposed planting set out in the S106 agreement. Nevertheless, given the disturbance to the natural conditions which would be caused by the development, it seems to me that it would be wise to ensure that watering of these trees continued during the first growing season after the completion of construction if this proved necessary. I consider that the condition should be amended by including the words '*and throughout the first growing season after completion of construction where necessary*' after the words '*and construction of the IWMF*'.

13.161 I consider that the provisions of the S106 agreement are necessary to ensure that the necessary highway and access works are completed at the appropriate time in the interests of road safety; traffic routing arrangements are put in place again in the interests of road safety and to minimise any impact on the local road network; a Site Liaison Committee is set up and operates, to ensure good communications between the operator of the plant and the local community; the refurbishment of the Woodhouse Farm complex takes place in the interests of preserving the listed buildings and providing facilities that would be of benefit to the local community; a management plan is put into operation to mitigate the visual impact of the development and to enhance the ecological value of the area; to ensure that minerals are not extracted and the site then remains undeveloped; to ensure a survey of historic buildings is undertaken and the results are appropriately recorded; to ensure groundwater is monitored and any necessary mitigation measures are undertaken; to ensure the MDIP is operated as an integral part of the IWMF; and to provide for the setting up and operation of a Community Trust Fund for the benefit of the local community.

13.162 I can understand the desire of the community group and the LCG for ambient air quality monitoring to be undertaken at specified receptor locations and for the results to be made available to the local community. I have no doubt that the results of such monitoring could assist in allaying the fears of the local community about the potential of the plant to cause harm to human health and the local environment. However, as the applicants point out, such monitoring would be subject to a wide range of variables and would be of limited value in identifying the impact of the development itself. A more meaningful and accurate measurement of the emissions from the plant would be obtained from the regular monitoring of emissions from the stack. This is a requirement of the Waste Incineration Directive (WID) and would result in continuous monitoring of some emissions and regular periodic monitoring of others. It has the advantage of providing emissions data for a wide area rather than at a few specific locations and would ensure that emissions and modelling data related to the emissions from the plant. The S106 agreement provides for the results of such monitoring and also ground water monitoring to be presented to the Site Liaison Committee. I conclude that this approach would result in more meaningful measurements of emissions from the eRCF. [6.114, 12.23]

SECTION 14 - RECOMMENDATION

14.1 I recommend that planning permission be granted for the proposed Integrated Waste Management Facility comprising: Anaerobic Digestion Plant treating mixed organic waste, producing biogas converted to electricity through biogas generators; Materials Recovery Facility for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals; Mechanical Biological Treatment facility for the treatment of residual municipal and residual commercial and industrial wastes to produce a solid recovered fuel; De-inking and pulping paper recycling facility to reclaim paper; Combined Heat and Power Plant utilising solid recovered fuel to produce electricity, heat and steam; Extraction of minerals to enable buildings to be partially sunken below ground level within the resulting void; Visitor / Education Centre; Extension to existing access road; Provision of offices and vehicle parking; and associated engineering works and storage tanks. The permission should be subject to the conditions set out in the centre column of Appendix B of this report.

MP Hill

INSPECTOR

APPEARANCES

FOR THE APPLICANTS:

David Elvin QC assisted by Simon Pickles, of Counsel	instructed by Linklaters LLP on behalf of Gent Fairhead & Co Limited.
They called:	
Steven Smith BSc MSc	Associate, Golder Associates (UK) Ltd
Andrew Sierakowski BSc MSc LLM MRTPI MIHBC AMCIWM	Senior Minerals and Waste Planner, Golder Associates (UK) Ltd.
Ralph Keeble BSc MICE MCIWM	Director, Ralph Keeble Consulting Ltd.
Christine Marsh BA(Hons) DipLA MLA	Senior Landscape Architect, Golder Associates (UK) Ltd
Dr Amanda Gair BSc (Hons) PhD MIES MIAQM	Head of Air Quality Team, SLR Consulting.
David Hall BSc MSc CGeol MGS	Principal, Golder Associates (UK) Ltd.
Dr Ian James Fairclough MSc PhD MIEEM	Senior Ecologist, Golder Associates (UK) Ltd.
Jeff Thornton BSc(Hons) MSc	Technical Development Director for Contaminated Land, Golder Associates (UK) Ltd.
Justin Bass MSc MCILT	Associate, Intermodal Transportation Ltd

FOR THE WASTE PLANNING AUTHORITY:

James Pereira of Counsel He called	instructed by Solicitor to Essex County Council
Claire Tomalin BSc MA MRTPI	Senior Planner, Essex County Council.

FOR BRAINTREE DISTRICT COUNCIL AND VARIOUS PARISH COUNCILS (The Local Councils Group):

David Whipps, Solicitor LARTPI He called	Holmes and Hills Solicitors
Ian Gilder MA DipTP MRTPI FRSA	Head of Planning, Environmental Resources Management.
Teresa Lambert BA(Hons) DipTP MRTPI	Development Control Manager, Braintree District Council.
Melanie A'lee MIHIE	Associate, Waterman Boreham Ltd.
Tony Dunn MA(Oxon) MBA	Clerk to Bradwell Parish Council.
Mrs T Sivyver	Coggeshall Parish Council.
Robert Wright IEng MSOE MBES	Rivenhall Parish Council.
Alan Waive	Silver End Parish Council.
James Abbott BSc (Hons)	Braintree District Councillor and Rivenhall Parish Councillor.

FOR THE COMMUNITY GROUP:

John Dagg of Counsel He called	instructed by Alan Stones RIBA MRTPI MIHBC
John Palombi	Chairman of Witham & Countryside Society, Trustee

Philip Hughes
 Barry Nee BA MA
 Alan Stones AADip DipTP
 RIBA MRTPI MIHBC

Director of CPREssex.
 District Councillor and Silver End Parish Councillor.
 Resident of Kelvedon.
 Consultant in urban design and historic buildings
 conservation.

INTERESTED PERSONS:

Paul Gadd	representing Saffron Walden Friends of the Earth
David Rice	Local resident, Braintree.
Stewart Davis	Local resident, Kelvedon.
Eleanor Davis	Local resident, Kelvedon.
Paula Whitney	representing Colchester and North East Essex Friends of the Earth
Kate Ashton	Local resident, Rivenhall.
Felicity Mawson	Local resident, Witham.
Brian Saville	Local resident, Bradwall
Robert Gordon	Local resident , Silver End

DOCUMENTS

- 1 Lists of persons present at the inquiry
- 2 ECC's Letter of Notification of inquiry.
- 3 Copies of Representations received by ECC

Submitted by Applicants – Gent Fairhead & Co Ltd (GF)

GF/2/A	Proof of Evidence of Steven Smith
GF/2/B	Appendices to Proof of Evidence of Steven Smith
GF/2/C	Rebuttal Proof of Evidence of Steven Smith
GF/2/D	Appendices to Rebuttal Proof of Evidence of Steven Smith
GF/2/E	Presentation of Evidence of Steven Smith
GF/3/A	Proof of Evidence of Andrew Sierakowski
GF/3/B	Appendices to Proof of Evidence of Andrew Sierakowski
GF/4/A	Proof of Evidence of Ralph Keeble
GF/4/B	Appendices to Proof of Evidence of Ralph Keeble
GF/4/C	Rebuttal Proof of Evidence of Ralph Keeble
GF/4/D	Appendices to Rebuttal Proof of Evidence of Ralph Keeble
GF/5/A	Proof of Evidence of Christine Marsh
GF/5/B	Appendices to Proof of Evidence of Christine Marsh
GF/5/C	Rebuttal Proof of Evidence of Christine Marsh
GF/5/D	Appendices to Rebuttal Proof of Evidence of Christine Marsh
GF/6/A	Proof of Evidence of Dr Amanda Gair
GF/6/B	Appendices to Proof of Evidence of Dr Amanda Gair

GF/6/C	Rebuttal Proof of Evidence of Dr Amanda Gair
GF/6/D	Response to Friends of the Earth – Air Quality
GF/7/A	Proof of Evidence of David Hall
GF/7/B	Appendices to Proof of Evidence of David Hall
GF/7/C	Supplemental Proof of Evidence of David Hall
GF/7/D	Appendices to Supplemental Proof of Evidence of David Hall
GF/7/E	Rebuttal Proof of Evidence of David Hall
GF/7/F	Appendices to Rebuttal Proof of Evidence of David Hall
GF/8/A	Proof of Evidence of Dr Ian James Fairclough
GF/8/B	Appendices to Proof of Evidence of Dr Ian James Fairclough
GF/8/C	Rebuttal Proof of Evidence of Dr Ian James Fairclough
GF/8/D	Appendices to Rebuttal Proof of Evidence of Dr Ian James Fairclough
GF/9/A	Proof of evidence of Jeff Thornton
GF/9/B	Appendices to Proof of Evidence of Jeff Thornton
GF/9/C	Supplemental Proof of Evidence of Jeff Thornton
GF/9/D	Appendices to Supplemental Proof of Evidence of Jeff Thornton
GF/9/E	Response to Friends of the Earth – HHRA
GF/10/A	Proof of Evidence of Justin Bass
GF/10/B	Appendices to Proof of Evidence of Justin Bass
GF/10/C	Rebuttal Proof of Evidence of Justin Bass
GF/10/D	Appendices to Rebuttal Proof of Evidence of Justin Bass
GF/10/E	Email from the Highways Agency dated 9 June 2009
GF/10/F	Letter from the Highways Agency dated 8 October 2009
GF/11	Revised Non-Technical Summary
GF/12	Addendum Environmental Statement
GF/13	Application Drawings
GF/13-R1	Revised Application Drawings (to replace GF/13)
GF/14	Erratum to GF/5/B/13 (Appendix 13 to Proof of Evidence of Christine Marsh)
GF/15	Erratum to GF/2/A and GF/2/B (Evidence of Steven Smith)
GF/15/A	Further Erratum to GF/2/A (Evidence of Steve Smith)
GF/16	Erratum to Chapter 2 of GF/12 (the Air Quality Chapter of the ES Addendum)
GF/17	Agreed note on the WRATE Modelling
GF/18	Proposed Site Itinerary
GF/19	Applicant List of Appearances
GF/20/A	List of Inquiry Documents – Day 1 (Tuesday 29 September 2009)

GF/20/B	List of Inquiry Documents – Day 2 (Wednesday 30 September 2009)
GF/20/C	List of Inquiry Documents – Day 5 (Tuesday 6 th October 2009)
GF/20/D	List of Inquiry Documents – Day 5 (Tuesday 6 th October 2009)
GF/20/E	List of Inquiry Documents – Day 8 (Friday 9 th October 2009)
GF/20/F	List of Inquiry Documents – Day 10 (Wednesday 14 th October 2009)
GF/21	Opening Submissions on behalf of the Applicant
GF/22	Erratum to GF/6/B/10 (Appendix 10 to the Proof of Evidence of Amanda Gair)
GF/23	Erratum to GF/5/A (Proof of Evidence of Christine Marsh)
GF/24	Summary Data to Support Evidence of Ralph Keeble
GF/25/A	Indicative Inquiry Programme (Day 2)
GF/25/B	Indicative Inquiry Programme (Day 2)
GF/25/C	Indicative Inquiry Programme (Day 3)
GF/25/D	Indicative Inquiry Programme (Day 5)
GF/25/E	Indicative Inquiry Programme (Day 6)
GF/25/F	Indicative Inquiry Programme (Day 6)
GF/25/G	Indicative Inquiry Programme (Day 8)
GF/25/H	Indicative Inquiry Programme (Day 9)
GF/26	Letter from Shanks to Ralph Keeble dated 21 September 2009
GF/27	Note of WRATE Modelling – Agreed Between David Hall and Ian Gilder
GF/28	Email from the Environment Agency in Respect of the Environmental Permit Application
GF/29	Negotiation of the RCF Section 106 Agreement
GF/30	Supplementary Note to Ralph Keeble's Evidence
GF/31	Supplementary Note on Tissue Mill Feedstock – by Ralph Keeble
GF/32	Note on Heritage Significance of Rivenhall Airfield
GF/33	Supplementary Note of EERA Review Consultation – by Ralph Keeble
GF/34	Supplementary Information - prepared by Amanda Gair
GF/35	Note on Tranquillity Mapping
GF/36	Erratum to CD/2/6 (Appendix 1 to the Ecological Impact Assessment Chapter)
GF/37	Note addressing question raised by Friends of the Earth regarding the "R1 Formula" (i.e. whether the eRCF would be categorised as "recovery" or "disposal" pursuant to Directive 2008/98/EC)
GF/38	Flexibility of the eRCF
GF/39	Directions to Frog Island WMF for site visit on Friday 16 October (Meeting there at 10.30am)
GF/40	Note addressing letter to the Inquiry from Glendale Power dated 8 October 2009 (CD/15/5/B)
GF/41	eRCF Preliminary Lighting Schedule
GF/42	eRCF Maintenance Note

GF/43	Explanation of changes to application drawings
GF/44	Closing submissions
GF/45	Drawing showing calculation of eRCF building area(in response to CD1/13/2 – Local Council's response to SoCG)

Submitted by Essex County Council (ECC)

ECC/1	Statement of Case
ECC/2	Proof of Evidence of Claire Tomalin
ECC/3	Summary Proof of Evidence of Claire Tomalin
ECC/4	Opening Submissions on behalf of ECC
ECC/5	Email from ERM to Lesley Stenhouse at ECC and Response
ECC/6	Supplementary Note of EERA Review Consultation – prepared by Claire Tomalin
ECC/7	Proposed Conditions (with comments where condition not agreed between ECC and the Applicant)
ECC/8	Revised version of ECC/7 with changes marked to show additional comments following Inquiry session on 13 October 2009
ECC/9	Closing submissions

Submitted by Local Council's Group (LC)

LC/1/A	Proof of Evidence of Ian Gilder
LC/1/B	Appendices to Proof of Evidence of Ian Gilder
LC/1/C	Supplementary Proof of Evidence of Ian Gilder
LC/1/D	Rebuttal Proof of Evidence of Ian Gilder
LC/1/E	Note on ERM 2009 Report (CD/10/4)
LC/2/A	Proof of Evidence of Teresa Mary Lambert
LC/2/B	Appendices to Proof of Evidence of Teresa Mary Lambert
LC/3/A	Proof of Evidence of Melanie A'Lee
LC/3/B	Appendices to Proof of Evidence of Melanie A'Lee
LC/4/A	Proof of Evidence of Tony Dunn
LC/4/B	Appendices to Proof of Evidence of Tony Dunn
LC/5/A	Proof of Evidence of Michael Horne
LC/6/A	Proof of Evidence of Robert Wright
LC/7/A	Proof of Evidence of Alan Waive
LC/8/A	Proof of Evidence of James Abbott
LC/8/B	Appendices to Proof of Evidence of James Abbott
LC/9	List of Appearances for the Local Councils
LC/10	Opening Submissions on behalf of the Local Councils
LC/11/A	Plan showing Parish boundaries

LC/11/B	Plan showing certain referenced roundabouts
LC/11/C	Plan showing certain referenced local roads
LC/12	Closing submissions
LC13-14	These have been numbered as CD/16/3-4

Submitted by Community Group (CG)

CG/1/A	Proof of Evidence of John Palombi
CG/1/B	Appendices to Proof of Evidence of John Palombi
CG/2/A	Proof of Evidence of Philip Hughes
CG/2/B	Appendices to Proof of Evidence of Philip Hughes
CG/3/A	Proof of Evidence of Barry Nee
CG/4/A	Proof of Evidence of Alan Stones
CG/4/B	Appendices to Proof of Evidence of Alan Stones
CG/5	List of Appearances and Opening Submissions on behalf of the CG
CG/6	Closing submissions

Submitted by other parties and individuals (OP)

OP/1	Submission on behalf of Saffron Walden Friends of the Earth, together extract of Environmental Report, dated February 2008, to Essex County Council by Eunomia.
OP/2	Oral statement of behalf of Saffron Walden Friends of the Earth including extract from DEFRA Stage One: Consultation on the transposition of the revised Waste Framework Directive (Directive 2008/98/EC) (July 2009)
OP/3	Submission from Stewart Davis
OP/4	Submission from Eleanor Davis
OP/5	Submission from Kate Ashton, including appendices.
OP/6	Submission by Paula Whitney, together with 7 appendices, on behalf of Colchester and North East Essex Friends of the Earth
OP/7	Submission by Felicity Mawson

CORE DOCUMENTS (referenced as: CD/[Section No]/[Ref No], e.g. the call in letter is CD/1/1)

Section No	Ref No	Document Title or Description
1		Call In Letter
1	1	Government Office for the East of England Call in Letter - 12.05.09
2		eRCF Planning Application and Associated Documents - ESS/37/08/BTE
2	1	Letter to ECC - Ref. Screening & Scoping - 22.05.08
2	2	eRCF Formal Scoping Opinion Request - 22.05.08
2	3	Letter to ECC - Ref. Planning Application & EIA - 26.08.08

2	4	Planning Application and Environmental Statement, Proposed Evolution of the Recycling & Composting Facility at Rivenhall Airfield, Volume 1 - 26.08.08
2	5	Planning Application and Environmental Statement, Proposed Evolution of the Recycling & Composting Facility at Rivenhall Airfield, Volume 2, 1 of 4 - 26.08.08
2	6	Planning Application and Environmental Statement, Proposed Evolution of the Recycling & Composting Facility at Rivenhall Airfield, Volume 2, 2 of 4 - 26.08.08
2	7	Planning Application and Environmental Statement, Proposed Evolution of the Recycling & Composting Facility at Rivenhall Airfield, Volume 2, 3 of 4 - 26.08.08
2	8	Planning Application and Environmental Statement, Proposed Evolution of the Recycling & Composting Facility at Rivenhall Airfield, Volume 2, 4 of 4 - 26.08.08
2	9	Letter to ECC - Ref. Regulation 19 - Additional Information - 09.12.08
2	10	Regulation 19 Additional Information - 09.12.08
2	11	ERM, Rivenhall Airfield – Evolution of the Recycling and Composting Facility: Review of Environmental Statement, Final Report, November 2008
2	12A	ECC Report to Committee (DR/19/09) - 24.04.09
2	12B	Addendum to ECC Report to Committee - 24.04.09
2	13	Minutes of the Development & Regulation Committee - 24.04.09
3		RCF Planning Application and Associated Documents - ESS/38/06/BTE
3	1	Planning permission dated 26 February 2009 (Ref:KA/DEVC/2848)
3	2	Minutes of the East of England Regional Planning Panel Sub-Committee of 19 January 2007
3	3	Rivenhall Airfield Recycling & Composting Facility, Volume 1 - Planning Application Supporting Statement – July 2006
3	4	Rivenhall Airfield Recycling & Composting Facility, Volume 2 - Environmental Statement, File 1 of 2- July 2006
3	5	Rivenhall Airfield Recycling & Composting Facility, Volume 2 - Environmental Statement, File 2 of 2- July 2006
3	6	Rivenhall Airfield Recycling & Composting Facility Supplementary Report, Nov 2006
3	7	Section 106 Agreement dated 26 February 2009 between Gent Fairhead & Co Ltd (1), Essex County Council (2), Barclays Bank Plc (3), Gent Fairhead Aggregates Ltd and Cemex Operations Ltd (4) and The Bradwell Estate (5)
3	8	Letter from Go-East dated 26 April 2007 in response to the referral by ECC of ESS/38/06/BTE
3	9	ECC Committee Report - ESS/38/06/BTE - 30 March 2007 (DR/015/07)
4		European Legislation and Guidance
4	1	Consolidated EC Framework Directive on Waste 2006/12/EC (previously the Waste Framework Directive 75/442/EEC (as amended))
4	2	New EC Framework Directive on Waste 2008/98/EC
4	3	EC Waste Incineration Directive 2000/76/EC
4	4	EC Landfill Directive 1999/31/EC
4	5	EC Groundwater Directive 2006/118/EC
4	6	EC Reference Document on Best Available Techniques in the Pulp and Paper Industry, 2001
4	7	EC Directive on Air Quality 2008/50/EC
4	8	The IPPC Directive (Directive 2008/01/EC)
5		Statutory Development Plan and Associated Documents
5	1	East of England Plan, The Revision to the Regional Spatial Strategy for the East of England, (May 2008)
5	2	Report to the Regional Planning Panel on the 29 June 2009 entitled 'Waste Policies for the review of the East of England Plan'
5	3	Essex and Southend Replacement Structure Plan (Adopted April 2001)

5	4	Essex and Southend Waste Local Plan (Adopted September 2001)
5	5	Braintree District Local Plan Review (Adopted July 2005)
5	6	Essex Minerals Local Plan First Review (January 1997)
5	7	Extract from the Report of the Panel, dated June 2006, Following the Examination in Public of the East of England Plan December 2004
5	8	Technical Paper on Waste for the Review of the East of England Plan – Consultation Document, August 2009
6		National Planning Policy
6	1	Planning Policy Statement (PPS) 1 – Delivering Sustainable Development
6	2	Planning and Climate Change – Supplement to PPS 1
6	3	Consultation Paper on PPS4 – Planning for Sustainable Economic Development 2007
6	4	PPS 7 – Sustainable Development in Rural Area
6	5	PPS 9 – Biodiversity and Geological Conservation
6	6	PPS 10 – Planning for Sustainable Waste Management
6	6A	Extract from the Companion Guide to PPS 10
6	7	Planning Policy Guidance (PPG) 13 – Transport
6	8	PPG 15 – Planning and the Historic Environment
6	9	PPG 16 – Archaeology and Planning
6	10	PPS 22 – Renewable Energy 2004
6	11	PPS 23 – Planning and Pollution Control
6	11A	Planning Policy Statement 23: Planning and Pollution Control Annex 1: Pollution Control, Air and Water Quality
6	12	PPG 24 – Planning and Noise
6	13	PPS 25 – Development and Flood Risk
6	14	Minerals Policy Statement (MPS) 2 – Controlling and Mitigating the Environmental Effects of Minerals Extraction in England
6	15	The Planning System: General Principles (ODPM, 24.02.2004)
6	16	PPS Planning for the Historic Environment: Historic Environment Planning Practice Guide (Living Draft – 24 July 2009)
6	17	Consultation paper on a new Planning Policy Statement 15: Planning for the Historic Environment (DCLG July 2009)
7		Circulars
7	1	Circular 11/95: Use of conditions in planning permission
7	2	Circular 05/05: Planning obligations
8		Other Law, Policy and Strategy Documentation
8	1	DEFRA Waste Strategy for England 2007 (May 2007)
8	2	Joint Municipal Waste Management Strategy for Essex (2007 to 2032)
8	3	DEFRA – Waste Infrastructure Delivery Programme Information Note on Combined Heat & Power (January 2009)
8	4	The UK Renewable Energy Strategy 2009
8	5	Essex Waste Management Partnership PFI, Outline Business Case, April 2008 (Executive Summary)
8	6	Essex Waste Management Partnership PFI, Outline Business Case, July 2009 (main body only, no appendices)
8	7	English Heritage (2006) <i>Understanding Historic Buildings: A guide to good recording practices</i>
8	8	The UK Low Carbon Transition Plan – National strategy for climate and energy
8	9	Designing waste facilities – a guide to modern design in waste (DEFRA/CABE 2008)
9		Previous Inquiry Documents and Other Planning Permissions
9	1A	Essex and Southend-on-Sea Waste Local Plan, Public Inquiry, 25 October 1999 – 5 January 2000, Report of the Inspector, July 2000

9	1B	Secretary of State's decision in respect of CD/9/1A
9	2	Planning Permission ESS/07/98/BTE: Minerals Local Plan Site R, Bradwell Sand and Gravel Pit and Rivenhall Airfield, Bradwell
9	3	ESS/15/08/BTE, Report from the Head of Environmental Planning at ECC approving variation of ESS/07/98/BTE to allow amended restoration levels.
10		Industry Reports and Assessments
10	1	Urban Mines – Detailed Assessment of East of England Waste Arisings for the East of England Regional Assembly (March 2009)
10	2	WRAP Market De-inked Pulp Feasibility Study, 2005
10	3	Waste Arisings, Capacity and Future Requirements Study Final Report (ERM, February 2007)
10	4	Updated Capacity and Need Assessment Final Report (ERM, July 2009)
11		The Council Group Documents
11	1	[NOT USED]
11	2	Braintree District Council, Committee Report – 25 November 2008
11	3	Braintree District Council, Minutes of Planning Committee Meeting – 25 November 2008
11	4	Braintree District Council, Committee Report – 20 January 2009
11	5	Braintree District Council, Minutes of Planning Committee Meeting – 20 January 2009
11	6	[NOT USED]
11	7	[NOT USED]
11	8	Braintree District Council, Cabinet Meeting, Minutes of Meeting – 11 May 2009
12		The Community Group Documents
12	1	Kelvedon Village Plan, Kelvedon Parish 2002
12	2	Bradwell Village Action Plan, Bradwell Village Action Group, 2003
12	3	The Countryside Agency, Rivenhall Village Design Statement, July 2005
13		Statement of Common Ground
13	1	Draft Statement of Common Ground agreed between Gent Fairhead & Co. Ltd and ECC, dated 26 August 2009
13	2	Draft Appendix to CD/13/1 prepared by the Councils Group
13	3	CD13/1 with slight amendments shown in track changes (incorporating CD/13/2 as Appendix 1)
13	4	Final Statement of Common Ground
14		Section 106 Agreement
14	1	Draft Section 106 Agreement agreed between Gent Fairhead & Co. Ltd and ECC, dated 26 August 2009
14	2	Note setting out changes to be made to CD/14/1 prior to engrossment of Section 106 Agreement to incorporate comments of Local Councils
14	3	Further changes to be made to CD/14/1 to incorporate comments of Local Councils
14	4	Engrossment version of S106 (being CD/14/1 incorporating changes set out in CD/14/3)
14	5	Conformed and certified copies of completed S106 agreement
15		Third Party Correspondence
15	1	File of third party correspondence received from PINS on 3 August 2009
15	2	Correspondence received from PINS up to and including 25 September 2009
15	3	Letter submitted by Mr B T Hill to Inspector at Inquiry dated 5 October 2009
15	4	Correspondence received from PINS on 8 October 2009 (comprising 3 letters and 3 emails CD/15/4/A to CD/15/4/F)
15	5	Correspondence received from PINS between 9 and 12 October 2009 (CD/15/5/A to CD/15/5/F)
15	6	Correspondence received from PINS on 13 October 2009
15	7	Letter from Environment Agency to PINS dated 13 October 2009
16		Comments on the EA response to Addendum to ES and on any other representations on the Addendum received by 14 October 2009.

- 16 1 Letter from EA dated 22 October 2009 clarifying earlier comments
- 16 2 Comments on EA letter from Community Group dated 22 October 2009
- 16 3 Comments on EA letter from Local Council's Group dated 22 October 2009
- 16 4 Comments on lighting schedules from Local Council's Group dated 22 October 2009
- 17** **Final responses submitted by 29 October 2009 to evidence submitted at CD/16 above.**
- 17 1 Technical Note on Exterior Lighting, prepared by Pell Frishmann (dated 26 October 2009) on behalf of the applicants in response to representations from the LCG and CG's dated 22 October 2009.
- 17 2 Applicants response to representations made by Local Councils Group and Community Group on 22 October 2009 (CD/16 above) - Prepared by Dr Amanda Gair, 29 October 2009

Appendix A – Brief Description of the Frog Island Waste Management Facility at Rainham

- 1) I undertook an accompanied visit to the Frog Island Waste Management Facility on 16 October 2009.
- 2) The Frog Island development comprises a materials recycling facility (MRF) and a mechanical biological treatment plant (MBT). The MBT plant processes about 200,000 tpa of municipal solid waste (MSW) and C&I waste on three lines each taking about 70,000 tpa. The plant operates with a negative internal air pressure and each line has a large biological filter on the roof designed to deal with odours. The object of the site visit was to inspect the operation and efficiency of the plant with regard to the generation of dust, and odour.
- 3) The plant is situated on the edge of the River Thames and is some distance from the nearest residential properties. There were high levels of noise at the end of each line within the plant, at the point where vehicle trailers were being loaded before removing residues from the plant. However, the plant appears to be well insulated for sound because the level of noise outside the building was low and not intrusive.
- 4) The plant is fitted with fast operating roller shutter doors and these appear to work well. However, the reception area for the delivery of waste is too small. I noted that vehicles were depositing their loads whilst the roller shutter doors were open – they did not appear to have sufficient room to move fully into the building before tipping the waste. Some waste spilled outside the line of the doors as the vehicles moved forward, lowering their trailer bodies and leaving the building. This spill of waste prevented the doors from being closed fully from time to time and there was some odour from waste at the point of delivery. Nevertheless, the negative air pressure system appeared to work well, because there was no other apparent odour emanating from the plant except that at the point of delivery.
- 5) I have no doubt that this problem is due to the limited size of the delivery area, which prevents some vehicles from unloading entirely within the building. The negative air pressure also clearly assisted with dust control. There was a significant amount of dust inside the plant, particularly at the end of the MBT lines. However, this is kept within the plant and I saw no obvious signs of dust nuisance outside the building.
- 6) Finally, I inspected the biological filters on the roof. These were filled with wood bark and the only odour emanating from this part of the plant was the smell of wood bark.

Appendix B – List of Proposed Planning Conditions

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
Commencement		
1. Commencement within 5 years, 30 days prior notification of commencement.	<p>1. The development hereby permitted shall be begun before the expiration of 5 years from the date of this permission. Not less than 30 days prior notification of commencement of the development shall be given in writing to the Waste Planning Authority.</p> <p>Reason: To comply with section 91 of the Town and Country Planning Act 1990 (as amended).</p>	
Approved Plans and Details		
2. The development hereby permitted shall only be carried out in accordance with the details submitted by way of the application and subsequent submitted information.	2. The development hereby permitted shall only be carried out in accordance with drawing numbers:	ECC: Inspector to decide if any additional material to be specifically referenced.
	Title	
	1-1: Land Ownership & Proposed Site Plan	
	1-2: Proposed Planning Application Area	
	1-4: Access Road Details	
	1-5A: Typical Arrangement and Architectural Features of the eRCF	
	1-8: Schematic Arrangement of Woodhouse Farm	
	1-9: eRCF Simplified Process Flow	
	1-10: eRCF Integrated Process Flow	
	3-3: Site Plan Layout	
	3-8C: eRCF General Arrangement	
	3-12C: eRCF Detailed Cross-Sections	
	3-14A: eRCF Upper Lagoon & Wetland Shelf	
	3-16: Services Plan	
	3-19B: eRCF General Arrangement	
	8-6: Landscape Mitigation Measures	
	IT569/SK/06: Proposed Improvements to Site Access Road Junction with Church Road	
	IT569/SK/07: Proposed Improvements to Site Access Road Junction with Ash Lane	
	19-2B: Tree Survey	
	19-3B: The Constraints and Protection Plan	
	19-5: eRCF Base Plan Woodhouse Farm	
	Reason: For the sake of clarity and the avoidance of doubt	
Traffic and Access		

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
<p>3. The maximum number of HGV movements a day associate with the associated waste management facility shall be no more than 404 HGV movements a day. Records shall be maintained and submitted upon request.</p>	<p>3. The total number of Heavy Goods Vehicle [HGV¹] movements associated with the excavation of materials (i.e. overburden, sand, gravel, and boulder clay) and import and/or export of materials associated with the operation of the completed IWWMF² hereby permitted shall not exceed the following limits: 404 movements 202 in and 202 out per day (Monday to Friday) 202 movements 101 in and 101 out per day (Saturdays) and shall not take place on Sundays, Public or Bank Holidays, except for clearances from Household Waste Recycling Centres between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority.</p> <p>No HGV movements shall take place outside the hours of operation authorised in Conditions 34 & 36 of this permission.</p> <p>¹An HGV shall be defined as having a gross vehicle weight of 7.5 tonnes or more.</p> <p>² IWWMF shall be defined as the buildings, structures and associated plant and equipment for the treatment of waste at the site.</p> <p>Reason: In the interests of highway safety and safeguarding local amenity and to comply with MLP policy MLP13 and WLP policies WLP W4C & W10E.</p>	
<p>3. The maximum number of HGV movements a day associate with the associated waste management facility shall be no more than 404 HGV movements a day. Records shall be maintained and submitted upon request.</p>	<p>4. The total number of Heavy Goods Vehicles [HGV¹] vehicle movements associated with the construction of the IWWMF (including deliveries of building materials) when combined with the maximum permitted vehicle movements under Condition 3 shall not exceed the following limits: 404 movements 202 in and 202 out per day (Monday to Sunday).</p> <p>No HGV movements shall take place outside the hours of operation authorised in Condition 35 of this permission.</p> <p>² IWWMF shall be defined as the buildings, structures and associated plant and equipment for the treatment of waste at the site.</p> <p>Reason: In the interests of highway safety and safeguarding local amenity and to comply with WLP Policy W10E.</p>	
<p>3. The maximum number of HGV movements a day associate with the associated waste management facility shall be no more than 404 HGV movements a day. Records shall be maintained and submitted upon request.</p>	<p>5. A written record of daily HGV movements into and out of the site shall be maintained by the operator from commencement of the development and kept for the previous 2 years and shall be supplied to the Waste Planning Authority within 14 days of a written request . The details for each vehicle shall include the identity of the vehicle operator, the type and size of the vehicle, the vehicle registration number, and an indication of whether the vehicle is empty or loaded.</p> <p>Reason: To enable the Waste Planning Authority to monitor HGV movements and in the interests of highway safety, safeguarding local amenity and to comply with MLP policy MLP13 and WLP policy W10E.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
<p>4. Details of the extended access road to be submitted including removal of lay-by on single lane section with upgrading of surface to passing bay.</p> <p>5. No construction works for the development until the access road extension and widening and all footpath crossover points have been provided.</p> <p>34. No development shall commence until the layout of the cross over points of rights of way with the haul road, both existing and proposed, have been submitted for approval.</p>	<p>6. No development shall commence until full details of the extended access road and the layout of the cross over points (both temporary and permanent) where the access road, both existing and proposed, crosses public footpaths, as shown on the Definitive Map and Statement of Public Rights of Way have been submitted to and approved in writing by the Waste Planning Authority. The extended access road and cross over points shall be implemented in accordance with the approved details.</p> <p>Reason: In the interests of pedestrian safety and safeguarding local environment and amenity and compliance with WLP policy W10E & W10G, and MLP policy MLP13.</p>	
<p>5. No construction works for the development until the access road extension and widening and all footpath crossover points have been provided.</p>	<p>7. No works on the construction of the IWMF shall commence until the access road extension and widening and all footpath crossover points have been constructed.</p> <p>Reason: In the interests of pedestrian safety and safeguarding local environment and amenity and compliance with WLP policy W10E & W10G, and MLP policy MLP13.</p>	
<p>6. All vehicles shall only enter and leave the Site using the Coggeshall Road (A120) junction.</p>	<p>8. No vehicles shall access or egress the site except via the access onto the Coggeshall Road (A120 trunk road) junction as shown on application drawing Figure 1-2.</p> <p>Reason: In the interests of pedestrian safety and safeguarding local environment and amenity and compliance with WLP policies W4C & W10E and MLP policies MLP3 & MLP13.</p>	
<p>7. No vehicles shall park within passing bays on the access road between Church Road and Ash Lane.</p>	<p>9. No vehicles shall park on the haul road between the A120 and Ash Lane.</p> <p>Reason: In the interests of safeguarding the local environment and amenity and to comply with MLP Policy MLP13 and WLP Policy W10E.</p>	
<p>Cultural Heritage</p>		
<p>8. No development until a programme for archaeological investigation.</p>	<p>10. No development or preliminary groundworks shall take place until a written scheme and programme of archaeological investigation and recording has been submitted to and approved in writing by the Waste Planning Authority. The scheme and programme of archaeological investigation and recording shall be implemented prior to the commencement of the development hereby permitted or any preliminary groundworks.</p> <p>Reason: To ensure that any archaeological interest has been adequately investigated and recorded prior to the development taking place and to comply with MLP policy MLP13 and WLP policy W10E.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
9. No demolition of airfield buildings until level 3 survey undertaken.	<p>11. No airfield buildings and/or structures shall be demolished until the Level 3 survey in accordance with the 2006 English Heritage Guidance entitled "Understanding Historic Buildings: A Guide to Good Recording Practice" of the airfield buildings and/or structures has been completed.</p> <p>Reason: To ensure that any historical interest has been adequately investigated and recorded prior to the development taking place and to comply with MLP policy MLP13 and WLP policy W10E.</p>	
10. No development affecting the moat until details of the proposed improvements and water supply submitted for approval.	<p>12. No ecological management works affecting the moat adjacent to Woodhouse Farm shall commence until details of the proposed works and proposed water supply for the moat and a timescale for its implementation have been submitted to and approved in writing by the Waste Planning Authority. The works to the moat and water supply arrangements shall be implemented in accordance with the details approved.</p> <p>Reason: To ensure protection of any historical and/or ecological interest to comply with MLP policy MLP13 and WLP policy W10E.</p>	
11. No development until details of signage, telecommunications and lighting within the vicinity of Woodhouse Farm have been submitted.	<p>13. No development shall commence until details of signage, telecommunications equipment and lighting within the Woodhouse Farm complex (comprising Woodhouse Farm house, the Bakehouse, and the listed pump together with the adjoining land outlined in green on Plan 1 (which can be found in the S106 agreement)) have been submitted to and approved in writing by the Waste Planning Authority. The signage, telecommunications equipment and lighting shall be implemented in accordance with the details approved.</p> <p>Reason: To protect the setting and appearance of the Listed Buildings and to comply with WLP policy W10E and BDLPR policy RLP100.</p>	
Design and Layout		
<p>12. No development shall commence until details of the design of the chimney including elevations, sections, plan views to appropriate scales and construction details have been submitted.</p> <p>&</p> <p>14. No development shall commence until information on effect of weathering on the proposed chimney material and how the chimney would be maintained to retain the quality of the surface have been submitted.</p>	<p>14. No development shall commence until details of the design of the stack serving the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The details to be submitted shall include:</p> <p>(a) elevations, sections and plan views to appropriate scales and construction details;</p> <p>(b) samples of the finish of the stack to provide a mirrored reflective surface; and</p> <p>(c) information on the effect of weathering on the proposed stack material or how the effect of weathering is to be assessed by, for example the location on the site of examples of proposed materials which will be exposed to the elements and details of how the stack would be maintained to retain the quality of the surface of these materials.</p> <p>The stack shall be constructed and maintained in accordance with the details approved</p> <p>Reason: To limit the impacts on local amenity and the local environment and to comply with WLP policy W10E and Adopted Braintree Local Plan Review 2005 (BDLPR) policy RLP78.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
13. No development shall commence until design details including external construction, materials, colours and finishes of the external cladding of the buildings and structures have been submitted including the provision of an artistic feature on or near the north elevation.	<p>15. No development shall commence until design details and samples of the external construction materials, colours and finishes of the external cladding of the IWMF buildings and structures, and design and operation of the vehicle entry and exit doors, have been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the details and samples approved.</p> <p>Reason: To limit the impacts on local amenity and the local environment and to comply with WLP policy W10E and BDLPR policies RLP78 & RLP90.</p>	
13. No development shall commence until design details including external construction, materials, colours and finishes of the external cladding of the buildings and structures have been submitted including the provision of an artistic feature on or near the north elevation.	16. Not used	
15. No development shall commence until management measures for the CHP plant have been submitted to ensure there is no visible plume from the chimney.	<p>17. No development shall commence until a management plan for the CHP plant to ensure there is no visible plume from the stack has been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the approved plan.</p> <p>Reason: To limit the impacts on local amenity and the local environment and to comply with WLP policy W10E and BDLPR policy RLP78.</p>	
16. No development shall commence until details of the green roofs have been submitted.	<p>18. No construction of the IWMF shall commence until details of the green roofs proposed for the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The green roofs shall be implemented in accordance with the details approved.</p> <p>Reason: To limit the impacts on local amenity and the local environment and to ensure enhancement of biodiversity and to comply with WLP policy W10E and BDLPR policies, RLP78 & RLP90.</p>	
17. No development shall take place until details of the layout of the waste management facility have been submitted.	<p>19. No works to install process equipment or plant within the IWMF shall commence until details of the IWMF process layout and configuration have been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the approved details.</p> <p>Reason: To ensure control of the development and in the interests of local amenity with respect to control of noise, dust, odour and light and to comply with WLP policy W10E.</p>	
<p>18. No beneficial use of the waste management facility until details for parking of cars, HGVs and any other vehicles that may use the waste management facility.</p> <p>&</p> <p>49. No redundant plant or machinery, containers, skips, trailers or vehicles shall be parked other than within designated areas.</p>	<p>20. No development shall commence until details of the construction compounds and parking of all vehicles and plant and equipment associated with the extraction of materials and the construction of the IWMF have been submitted to and approved in writing with the Waste Planning Authority. The details shall include location, means of enclosure and surfacing. The compounds and parking shall be implemented in accordance with the approved details.</p> <p>Reason: To limit the impacts on local amenity and the local environment and to comply with WLP policy W10E and BDLPR policy RLP78.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
18. No beneficial use of the waste management facility until details for parking of cars, HGVs and any other vehicles that may use the waste management facility.	<p>21. No beneficial occupation of the IWMF shall commence until details of the provision to be made for and the marking out of parking spaces for cars, HGVs and any other vehicles that may use the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The parking provision and marking out shall be implemented in accordance with the approved details. The parking areas shall be retained and maintained permanently for manoeuvring and parking. No HGVs shall park in the parking area adjacent to Woodhouse Farm complex except in relation to deliveries for the uses at Woodhouse Farm complex.</p> <p>Reason: To limit the impacts on local amenity and the local environment and to comply with WLP policy W10E and BDLPR policy RLP78 and RLP100.</p>	
Water Resources		
19. No development shall take place until a detailed scheme for foul water has been submitted and approved.	<p>22. No development shall commence until a detailed scheme for foul water management, including details of the design and operation of the foul water system for the IWMF and Woodhouse Farm complex has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall be implemented in accordance with the details approved prior to the commencement of operation of the IWMF.</p> <p>Reason: To minimise the risk of pollution of water courses, aquifers and minimise the risk of flooding to comply with WLP policy W4B & W10E and BDLPR policy RLP 100.</p>	
20. No development shall take place until a detailed scheme of the surface water drainage and the ground water management system, including details of water flows between Upper lagoon and New Field lagoon.	<p>23. No development shall commence until a detailed scheme for surface water drainage and ground water management, including details of water flows between the Upper Lagoon and the New Field Lagoon has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall be implemented in accordance with the approved details.</p> <p>Reason: To minimise the risk of pollution of water courses, aquifers and minimise the risk of flooding to comply with MLP policy MLP13 and WLP policies W4B & W10E.</p>	
21. No excavation shall take place until a scheme identifying locations for the installation of boreholes to monitor groundwater has been submitted.	<p>24. No excavation shall commence until a scheme of ground water monitoring for the site has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall identify the locations for the installation of boreholes to monitor groundwater and the frequency of monitoring. The scheme shall be implemented in accordance with the details approved prior to the commencement of excavations on the site.</p> <p>Reason: To minimise the risk of pollution of water courses, aquifers and minimise the risk of flooding to comply with MLP policy MLP13 and WLP policies W4B & W10E.</p>	
22. In the event that contamination is found the developer shall submit details of mitigation and remediation for approval.	<p>25. No development shall commence until an investigation to identify whether the site is contaminated has been carried out and details of the findings including any land remediation and mitigation measures necessary should contamination be identified. The development shall be implemented in accordance with the approved details including any remediation and mitigation identified.</p> <p>Reason: To minimise the risk of pollution of water courses, aquifers and to comply with MLP policy MLP13 and WLP policies W4B & W10E and BDLPR policy RLP64.</p>	
Waste Management		

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
23. No element of the development may be implemented in isolation of others.	<p>26. The market de-inked paper pulp plant shall only source its heat steam and energy from the IWWMF with the exception of periods of start-up and maintenance and repair of the IWWMF.</p> <p>Reason: To ensure the development is operated as an integrated waste management facility as proposed, maximising the benefits of the co-location of the different elements and to comply with RSS policies WM1 & WM3 and WLP policies W4C, W8A & W7G.</p>	
24. No waste shall be brought onto the Site for processing in the MRF, AD, MBT and CHP plant (except waste paper and card) other than that arising from within the administrative area of Essex and Southend-on-Sea. Submission of monitoring data.	<p>27. No waste, except pre-sorted waste paper and card and Solid Recovered Fuel, shall be brought on to the site other than that arising from within the administrative area of Essex and Southend-on-Sea. Records indicating the origin of all waste consignments and tonnages brought to the site shall be kept and made available for inspection by the Waste Planning Authority for at least 2 years after receipt of the waste. The records shall be made available to the Waste Planning Authority within 14 days of a written request.</p> <p>Reason: To ensure the development is operated as an integrated waste management facility as proposed, maximising the benefits of the co-location of the different elements and to comply with RSS policies WM1 & WM3 and WLP policies W4C, W8A & W7G.</p>	
	<p>28. (i) SRF shall be sourced internally from the IWWMF or within the administrative boundaries of Essex and Southend-on-Sea.</p> <p>(ii) If the Waste Planning Authority is satisfied that the operator has used its reasonable endeavours to source SRF from these sources and there remains capacity within the IWWMF, then SRF arising from elsewhere within the East of England may be used up to the available capacity for a period up to three years from the date of the agreement of the Waste Planning Authority.</p> <p>(iii) No development shall commence until a scheme giving effect to the requirement of clause (i) above of this condition is submitted to and approved in writing by the Waste Planning Authority. The approved scheme shall be implemented as approved.</p> <p>Reason: In the interests of the environment by assisting Essex and Southend-on-Sea to become self-sufficient for managing its own waste ensuring that the waste is transported proximate to the site thereby minimising transportation distances, reducing pollution and amenity and to comply with RSS policies WM1, WM3, WM4 & WM5 and WLP policies W3A, W3C, W6A, W7A, W7B, W7C and W10E.</p>	<p>GFC: Five years appropriate</p> <p>ECC: One year appropriate</p>
25. No wastes other than dry non-hazardous Municipal Solid Waste and Commercial & Industrial wastes shall be brought onto the Site for processing, treatment or disposal.	<p>29. No waste other than those waste materials defined in the application shall enter the site for processing or treatment in the IWWMF plant. No more than 853,000tpa of Municipal Solid Waste and/or Commercial and Industrial Waste shall be imported to the site.</p> <p>Reason: Waste material of a greater quantity would raise additional environmental concerns, which would need to be considered afresh and to comply with RSS policies SS1, WM1, WM2, WM3 & WM4 and WLP policies W3A, W3C, W8A, & W10E.</p>	

<p>Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009</p>	<p>Proposed conditions</p>	<p>Comments by parties</p>
<p>26. No more than 435,000 tpa of waste (MSW and/or C&I) as MOW, MDR or unsorted waste, shall be imported to the Site, except C&I waste in the form of paper and card. No more than 331,000 tpa of paper and card shall be brought to the Site. No more than 87,500 tpa of SRF shall be imported to the Site. Records shall be kept and provided upon request.</p>	<p><i>[NO CONDITION REQUIRED - MERGED WITH PREVIOUS CONDITION]</i></p>	
<p>27. No more than 20% of the imported waste paper and card shall be from sources outside the East of England Region. Records shall be kept and provided upon request.</p>	<p>30. (i) No more than 50% of the imported waste paper and card (based on a nominal imported tonnage of pre-sorted waste paper and card of 360,000 tpa) shall be sourced from outside the administrative boundaries of the East of England Region.</p> <p>(ii) If the Waste Planning Authority is satisfied that the operator has used its reasonable endeavours to source 50% of the imported pre-sorted waste paper and card from within the East of England region, then the imported pre-sorted waste paper and card may be sourced from outside the East of England Region for a period of up to 5 years from the date of written agreement of the Waste Planning Authority.</p> <p>(iii) No development shall commence until a scheme giving effect to the requirement of clause (i) above of this condition is submitted to and approved in writing by the Waste Planning Authority. The approved scheme shall be implemented as approved.</p> <p>Reason: In the interests of the environment by assisting the East of England Region to become self-sufficient for managing its own waste ensuring that the waste is transported proximate to the site thereby minimising transportation distances, reducing pollution and minimising the impact upon the local environment and amenity and to comply with RSS policies WM1, WM3 & WM4, WLP policies W3A, W3C, W8A, W10E, the London Plan (February 2008) policies 4A.21 and 4A.22, the South East Plan (may 2009) policies W3, W4, W10 and W17.</p>	<p>GFC do not agree to proposed condition. Applicant would prefer one of the following, in order of preference:</p> <p>No Condition</p> <p>OR</p> <p>Waste paper and card imported to the site shall be sourced from within a 150km radius of the development site by road. Records of the source of waste imported to the site shall be kept for 2 years and shall be submitted to the Waste Planning Authority within 14 days of a written request.</p> <p>OR</p> <p>Waste paper and card to be imported to the site shall only be sourced from the East of England Region, London and the South East Region. Records of the source of waste imported to the site shall be kept for 2 years and shall be submitted to the Waste Planning Authority within 14 days of a written request.</p> <p>Reason: To comply with RSS policy WM3.</p>

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
<p>28. No waste brought onto the Site shall be discharged, deposited, handled, stored, composted or otherwise processed outside the buildings.</p>	<p>31. No waste brought onto the site shall be deposited, handled, stored, composted or otherwise processed outside the IWMF buildings and structures.</p> <p>Reason: To ensure minimum disturbance from operations and to avoid nuisance to local amenity and compliance with WLP policy W10E and BDLPR policy RLP62.</p>	
<p>29. No waste materials other than those arriving in enclosed containers, and enclosed or sheeted vehicles shall be accepted for processing.</p>	<p>32. All waste materials shall be imported and exported from the site in enclosed, containerised or sheeted vehicles.</p> <p>Reason: To ensure controlled waste operations and the containment of waste materials in compliance with WLP policy W10E and BDLPR policy RLP62.</p>	
<p>30. No vehicles shall leave the waste management facility site without first having been cleansed of all loose residual mineral or waste materials from the vehicle's body and chassis.</p>	<p>33. No vehicle shall leave the IWMF site without first having been cleansed of all loose residual mineral or waste materials from the vehicle's body and chassis.</p> <p>Reason: In the interests of limiting the effects on local amenity and highway safety, to control the impacts of the development and compliance with WLP policy W10E and BDLPR policy RLP62</p>	
<p>Hours of Working</p>		
<p>31. No removal of soils or excavation of overburden, boulder clay, sand and gravel shall be carried out other than between 07:00-18:30 hours Monday to Friday, and 07:00 - 13:00 hours Saturdays and not on Sundays, Bank and Public Holidays except for occasional maintenance of machinery, unless otherwise approved in writing by the Waste Planning Authority.</p>	<p>34. No removal of soils or excavation of overburden, boulder clay, sand and gravel shall be carried out other than between the following hours: 07:00-18:30 hours Monday to Friday, and 07:00 -13:00 hours Saturdays and shall not take place on Sundays, Bank and Public Holidays except for water pumping, environmental monitoring and occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.</p> <p>Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and compliance with MLP policy MLP13, WLP policies W10E & W10F and BDLPR policy RLP62.</p>	<p>Consistent with the hours of the adjacent Bradwell Quarry.</p>
<p>32. The construction works (including deliveries of building materials) for the waste management facility, hereby permitted shall only be carried out between 07:00 - 19:00 hours Monday to Sunday and not on Bank and Public Holidays except for occasional maintenance of machinery, unless otherwise approved in writing by the Waste Planning Authority.</p>	<p>35. The construction works (including deliveries of building materials) for the development hereby permitted shall only be carried out between 07:00-19:00 hours Monday to Sunday and not on Bank and Public Holidays except for occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.</p> <p>Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and compliance with WLP policies W10E & W10F and BDLPR policy RLP62.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties																										
<p>33. No waste or processed materials shall be delivered to or removed from any part of the waste management facility other than between 07:00 and 18:30 hours Monday to Friday and 07:00 and 13:00 hours on Saturdays, and not on Sundays, Public or Bank Holidays except for clearances from Household Waste Recycling Centres on Sundays and Bank and Public Holidays as required and then only between 10:00 and 16:00 hours.</p>	<p>36. No waste or processed materials shall be imported or exported from any part of the IWMF other than between the following hours</p> <p>07:00 and 18:30 hours Monday to Friday and</p> <p>07:00 and 13:00 hours on Saturdays, and not on Sundays, Public or Bank Holidays</p> <p>except for clearances from Household Waste Recycling Centres on Sundays and Bank and Public Holidays between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority.</p> <p>Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and compliance with WLP policies W10E & W10F and BDLPR policy RLP62.</p>																											
<p>Footpaths</p>																												
<p>35. No development shall take place until signs have been erected on both sides of the haul/access road where footpaths cross the haul road</p>	<p>37. No development shall commence until visible, legible and durable British Standard signs have been erected on both sides of the access road at the point where footpaths as shown on the Definitive Map, cross the access road to warn pedestrians and vehicles of the intersection. The signs shall read: 'CAUTION: PEDESTRIANS CROSSING' and 'CAUTION: VEHICLES CROSSING' and shall be maintained for the duration of the development.</p> <p>Reason: In the interest of the safety of all users of both the Right of Way and the haul road and to comply with MLP policy MLP13 and WLP policy W10G.</p>																											
<p>Noise</p>																												
<p>36. Except for temporary operations, between the hours of 07:00 and 19:00 the free field Equivalent Continuous Noise Level (L_{Aeq 1 hour}) at noise sensitive properties adjoining the Site, due to operations in the Site, shall not exceed the L_{Aeq 1 hour} levels set out in the following table:</p>	<p>38. Except for temporary operations, as defined in Condition 42, between the hours of 07:00 and 19:00 the free field Equivalent Continuous Noise Level (L_{Aeq 1 hour}) at noise sensitive properties adjoining the Site, due to operations in the Site, shall not exceed the L_{Aeq 1 hour} levels set out in the following table:</p> <table border="1" data-bbox="555 1285 884 1957"> <thead> <tr> <th>Noise Sensitive Properties</th> <th>Location Criterion dB L A eq 1 hour</th> </tr> </thead> <tbody> <tr> <td>Herring's Farm</td> <td>45</td> </tr> <tr> <td>Deeks Cottage</td> <td>45</td> </tr> <tr> <td>Haywards</td> <td>45</td> </tr> <tr> <td>Allshot's Farm</td> <td>47</td> </tr> <tr> <td>The Lodge</td> <td>49</td> </tr> <tr> <td>Sheepcotes Farm</td> <td>45</td> </tr> <tr> <td>Greenpastures Bungalow</td> <td>45</td> </tr> <tr> <td>Goslings Cottage</td> <td>47</td> </tr> <tr> <td>Goslings Farm</td> <td>47</td> </tr> <tr> <td>Goslings Barn</td> <td>47</td> </tr> <tr> <td>Bumby Hall</td> <td>45</td> </tr> <tr> <td>Parkgate Farm Cottages</td> <td>45</td> </tr> </tbody> </table>	Noise Sensitive Properties	Location Criterion dB L A eq 1 hour	Herring's Farm	45	Deeks Cottage	45	Haywards	45	Allshot's Farm	47	The Lodge	49	Sheepcotes Farm	45	Greenpastures Bungalow	45	Goslings Cottage	47	Goslings Farm	47	Goslings Barn	47	Bumby Hall	45	Parkgate Farm Cottages	45	
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Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
	<p>Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.</p> <p>Reason: In the interests of residential and local amenity and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP62.</p>	
<p>37. The free field Equivalent Continuous Noise Level ($L_{Aeq\ 1\ hour}$) shall not exceed 47 dB(A) $L_{Aeq\ 1\ hour}$ between the hours of 19:00 and 23:00, as measured or predicted at noise sensitive properties adjoining the Site.</p>	<p>39. The free field Equivalent Continuous Noise Level ($L_{Aeq\ 1\ hour}$) shall not exceed 42 dB(A) $L_{Aeq\ 1\ hour}$ between the hours of 19:00 and 23:00, as measured or predicted at noise sensitive properties, listed in Condition 38, adjoining the site. Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.</p> <p>Reason: In the interests of residential and local amenity and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP62.</p>	
<p>38. The free field Equivalent Continuous Noise Level ($L_{Aeq\ 1\ hour}$) shall not exceed 40 dB(A) $L_{Aeq\ 1\ hour}$ between the hours of 23:00 and 07:00, as measured and/or predicted at 1 m from the façade of the bedroom at noise sensitive properties adjoining the Site.</p>	<p>40. The free field Equivalent Continuous Noise Level ($L_{Aeq\ 1\ hour}$) shall not exceed 40 dB(A) $L_{Aeq\ 5min}$ between the hours of 23:00 and 07:00, as measured and/or predicted at 1 metre from the façade facing the site at noise sensitive properties, listed in Condition 38, adjoining the site.</p> <p>Reason: In the interests of residential and local amenity and to comply with WLP policy W10E and BDLPR policy RLP62.</p>	
<p>39. Noise levels shall be monitored at three monthly intervals at up to five locations as agreed with the Mineral/Waste Planning Authority.</p>	<p>41. Noise levels shall be monitored at three monthly intervals at up to five of the locations, listed in Condition 38, as agreed with the Waste Planning Authority. The results of the monitoring shall include the LA90 and L_{Aeq} noise levels, the prevailing weather conditions, details of the measurement equipment used and its calibration and comments on the sources of noise which control the noise climate. The survey shall be for four separate 15 minute periods two during the working day 0700 and 1830 and two during the evening/night time, 18:30 to 07:00 hours, the results shall be kept by the operating company during the life of the permitted operations and a copy shall be supplied to the Waste Planning Authority. After the first year of operation of the IWMP, the frequency of the monitoring may be modified by agreement with the Waste Planning Authority.</p> <p>Reason: In the interests of amenity and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP62.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
<p>40. For temporary operations, the free field noise level at sensitive properties shall not exceed 70 dB a $L_{Aeq, 1 \text{ hour}}$ at noise sensitive properties adjoining the Site, due to operations on the Site. Temporary operations shall not exceed a total of eight weeks in any continuous 12 month period for work affecting any noise sensitive property.</p>	<p>42. For temporary operations at the site in relation to the excavation of materials, the free field noise level at sensitive properties, listed in Condition 38, adjoining the site shall not exceed 70dB LAeq 1 hour, due to operations on the site. Temporary operations shall not exceed a total of eight weeks in any continuous 12 month period for work affecting any noise sensitive property. Not less than 5 days written notice shall be given to the Waste Planning Authority in advance of the commencement of any temporary operation. Temporary operations shall include site preparation, bund formation and removal, site stripping and restoration, and other temporary activity as may be agreed, in advance of works taking place, with the Waste Planning Authority.</p> <p>In the interests of residential and local amenity and to comply with MLP policy MLP13.</p>	
<p>Lighting</p>		
<p>41. No external lighting shall be installed on-site except in accordance with details to be submitted to and approved. The lighting shall not exceed 5 lux maintained average luminance.</p>	<p>43. No lighting for use during excavation of materials or construction of the IWWMF within the site shall be erected or installed until details of the location, height, design, sensors and luminance have been submitted to and approved in writing by the Waste Planning Authority. The lighting details shall be such that no lighting shall exceed 5 lux maintained average luminance. The lighting details with respect to excavation of materials shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. The lighting details with respect to construction of the IWWMF shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1900 Monday to Sunday and at no time on, Bank or Public Holidays except for security and safety lighting activated by sensors. The details shall ensure the lighting is designed to minimise the potential nuisance of light spillage from the boundaries of the site. The lighting shall thereafter be erected, installed and operated in accordance with the approved details.</p> <p>Reason: In the interests of local amenity and fauna and to comply with WLP policy W10E and BDLPR policies RLP 65 & RLP90.</p>	
<p>41. No external lighting shall be installed on-site except in accordance with details to be submitted to and approved. The lighting shall not exceed 5 lux maintained average luminance.</p>	<p>44. No lighting for use during operation of the IWWMF within the site shall be erected or installed until details of the location, height, design, sensors, times and luminance have been submitted to and approved in writing by the Waste Planning Authority. The lighting details shall be such that no lighting shall exceed 5 lux maintained average luminance. The lighting details shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. The details shall ensure the lighting is designed to minimise the potential nuisance of light spillage from the boundaries of the site. The lighting shall thereafter be erected, installed and operated in accordance with the approved details.</p> <p>Reason: In the interests of local amenity and fauna and to comply with WLP policy W10E and BDLPR policies RLP 65 & RLP90.</p>	
<p>Operations</p>		

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
42. No development shall commence until a detailing phasing scheme for the construction of the haul road, creation of the retaining wall and extraction of the minerals has been submitted for approval.	<p>45. No development shall commence until a detailed phasing scheme for the construction of the access road creation of the retaining wall around the site of the IWMF and extraction of the minerals from the site has been submitted to and approved in writing by the Waste Planning Authority. The development shall be carried out in accordance with the approved phasing scheme.</p> <p>Reason: To ensure control of the development and minimise the impact of the development on local amenity and the environment and to comply with MLP policy MLP13 and WLP policy W10E.</p>	
43. No development shall commence until details of soil handling, soil storage and machine movements and the end use of soils have been submitted for approval.	<p>46. No development shall commence until details of soil handling, soil storage and machine movements and the end use of soils have been submitted to and approved in writing by the Waste Planning Authority. The development shall be carried out in accordance with the details approved.</p> <p>Reason: To minimise soil compaction and structural damage of the soil and to protect the soil resource and to comply with MLP policy MLP13 and WLP W10E.</p>	
43. No development shall commence until details of soil handling, soil storage and machine movements and the end use of soils have been submitted for approval.	<p>47. Unless otherwise agreed in writing by the Waste Planning Authority, no topsoil, subsoil and/or soil making material shall be stripped or handled unless it is in a dry and friable condition ³ and no movement of soils shall take place:</p> <p>(a) During the months November to March (inclusive);</p> <p>(b) When the upper 50 mm of soil has a moisture content which is equal to or greater than that at which the soil becomes plastic, tested in accordance with the 'Worm Test' as set out in BS 1377:1977 – 'British Standards Methods Test for Soils for Civil Engineering Purposes'; or</p> <p>(c) When there are pools of water on the soil surface.</p> <p>³ The criteria for determining whether soils are dry and friable involves an assessment based on the soil's wetness and lower plastic limit. This assessment shall be made by attempting to roll a ball of soil into a thread on the surface of a clean glazed tile using light pressure from the flat of the hand. If a thread of 15cm in length and less than 3mm in diameter can be formed, soil moving should not take place until the soil has dried out. If the soil crumbles before a thread of the aforementioned dimensions can be made, then the soil is dry enough to be moved.</p> <p>Reason: To minimise the structural damage and compaction of the soil and to comply with MLP policy MLP13 and WLP policy W10E.</p>	
44. No processing other than dry screening of excavated sand and gravel shall take place within the Application Site.	<p>48. No minerals processing other than dry screening of excavated sand and gravel or in the reformation of levels using Boulder or London Clays shall take place within the site.</p> <p>Reason: To ensure that there are no adverse impacts on the local amenity from development not already assessed in the application details and to comply with MLP policy MLP10, MLP11, & MLP13.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
45. Any fuel, lubricant or chemical storage above ground and refuelling facilities shall be sited on an impermeable base and surrounded and bunded.	<p>49. Any fuel, lubricant or/and chemical storage vessel whether temporary or not shall be placed or installed within an impermeable container with a sealed sump and capable of holding at least 110% of the vessel's capacity. All fill, draw and overflow pipes shall be properly housed within the bunded area to avoid spillage. The storage vessel, impermeable container and pipes shall be maintained for the duration of the development.</p> <p>Reason: To minimise the risk of pollution to water courses and aquifers to comply with MLP policy MLP13 and WLP policies W4B & W10E.</p>	
46. Prior to commencement details of any permanent site perimeter fencing details shall be submitted for approval.	<p>50. Prior to the commencement of development details of any temporary or permanent site perimeter fencing shall be submitted to and approved in writing by the Waste Planning Authority. The fencing shall be erected in accordance with the details approved.</p> <p>Reason: In the interest of the amenity of the local area and to comply with MLP policy MLP13, WLP policy W10E and BDLPR 78.</p>	
47. No development shall take place until details of external equipment required to control any fugitive dust from the handling/storage/processing of waste have been.	<p>51. (a) No development shall take place until a scheme and programme of measures for the suppression of dust, have been submitted to and approved in writing by the Waste Planning Authority. The scheme shall include the suppression of dust caused by the moving, processing and storage of soil, overburden, stone and other materials within the site during excavation of materials and construction of the IWMF</p> <p>(b) No beneficial occupation of the IWMF shall commence until a scheme and programme of measures for the suppression of dust, have been submitted to and approved in writing by the Waste Planning Authority. The scheme shall include:</p> <p>(i) ; The suppression of dust caused by handling, storage and processing of waste; and</p> <p>(ii) Dust suppression on haul roads, including speed limits;</p> <p>In relation each scheme provision for monitoring and review.</p> <p>The development shall be implemented in accordance with the approved schemes and programme for the duration of the development hereby permitted.</p> <p>Reason: To reduce the impacts of dust disturbance from the site on the local environment and to comply with MLP Policy MLP13 and WLP policy W10E.</p>	
48. Prior to the importation of waste details of external equipment required to prevent fugitive odour nuisance shall be submitted.	<p>52. (a) No development shall commence until details of measures to control any fugitive odour from the excavation of materials and construction of the IWMF have been submitted to and approved in writing by the Waste Planning Authority the measures shall be implemented as approved.</p> <p>(b) No beneficial occupation of the IWMF shall commence until details of equipment required to control any fugitive odour from the handling/storage/processing of waste have been submitted to and approved in writing by the Waste Planning Authority. The details shall be implemented as approved.</p> <p>Reason: In the interest of local amenity and to comply with MLP policy MLP13 and WLP policy W10E.</p>	

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
Ecology		
52.If the development hereby approved is not commenced within one year of the date of this consent a further wildlife survey of the Site shall be carried out to update the information on the species and the impact of development and the report of survey together with an amended mitigation strategy as appropriate shall be submitted for approval.	<p>53. Prior to the commencement of development a further ecological survey of the Site shall be carried out to update the information contained within the Environmental Statement and the impact of the development assessed and if required mitigation measures as set out within the Environmental Statement updated and amended to mitigate any impacts. Prior to the commencement of development the ecological survey assessment of impact and any updated and amended mitigation shall be submitted to and approved in writing by the Waste Planning Authority. Any updated or amended mitigation shall be carried out in accordance with the approved details.</p> <p>Reason: To make appropriate provision for the management of natural habitat within the approved development in the interests of biodiversity and in accordance with RSS policies ENV1 & ENV 2, MLP policy MLP13, WLP policy W10E and BDLPR policy RLP84.</p>	
50. No Development shall commence until a ecological management plan has been submitted to include management and mitigation measures with respect to GCNs, Bats, Badgers, protected bird species and other ecologically sensitive habitats and species and for proposed new habitats before and during construction and during operation of the development.	<p>54. No development shall commence until a habitat management plan including details of the proposed management and mitigation measures described in the Environmental Statement (amended) has been submitted to and approved in writing by the Waste Planning Authority. The plan shall include:</p> <ul style="list-style-type: none"> (i) Description and evaluation of the features to be managed; (ii) Ecological trends and constraints on site that may influence management; (iii) Aims and objectives of management; (iv) Appropriate management options for achieving aims and objectives; (v) Prescriptions for management actions; (vi) Preparation of a work schedule (including a 5 yr project register, an annual work plan and the means by which the plan will be rolled forward annually); (vii) Personnel responsible for implementation of the plan; and (viii) Monitoring and remedial / contingencies measures triggered by monitoring. <p>The development shall be implemented in accordance with the approved plan.</p> <p>Reason: To make appropriate provision for the management of natural habitat within the approved development in the interests of biodiversity and in accordance with RSS policies ENV1 & ENV 2, MLP policy MLP13, WLP policy W10E and BDLPR policy RLP84.</p>	
53. No construction / demolition / excavation works or removal of hedgerows or trees shall be carried out on-site during the bird nesting season and only after an intensive nest search.	<p>55. No demolition, excavation works or removal of hedgerows or trees shall be undertaken on the site during the bird nesting season [1 March to 30 September inclusive] except where a suitably qualified ecological consultant has confirmed that such construction etc should not affect any nesting birds. Details of such written confirmations shall be sent to the Waste Planning Authority 14 days prior to commencement of the works.</p> <p>Reason: To ensure that breeding birds are not disturbed by the removal of habitat or development and in accordance with MLP policy MLP13 and WLP policy W10E and BDLPR policy RLP84.</p>	
Screening and Landscaping		

Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009	Proposed conditions	Comments by parties
54. There shall only be one stack the CHP stack. The CHP stack shall not exceed 81 m AOD.	<p>56. Only one stack shall be erected on the site to service all elements of the IWMF. The height of the stack shall not exceed 85 m Above Ordnance Datum.</p> <p>Reason: In the interest of the amenity of the local area and to comply with WLP policy W10E and BDLPR policy RLP90</p>	
55. All landscaping and planting shall be undertaken during the first available planting season.	<p>57. No development shall commence until details and a timetable for implementation for all bunding and planting have been submitted to and approved in writing by the Waste Planning Authority. The planting details shall include species, sizes, spacing and protection measures. The bunding details shall include shape and angles of slope and depth of soils. The scheme shall be implemented within the first available planting season [October to March inclusive] following commencement of the development hereby permitted in accordance with the approved details and maintained thereafter in accordance with Condition 58 of this permission. The bunding and planting details and timetable for implementation shall be implemented in accordance with the approved details.</p> <p>Reason: To comply with section 197 of the Town and Country Planning Act 1990 [as amended] to improve the appearance of the site in the interest of visual amenity and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP78.</p>	
56. Any tree or shrub forming part of a planting scheme is damaged, diseased or removed within the period of the operations or 5 years after completion of the operations shall be replaced by the applicants during the next planting season.	<p>58. Any tree or shrub forming part of the retained existing vegetation or the planting scheme approved in connection with the development that dies, is damaged, diseased or removed within the duration of 5 years during and after the completion of construction of the IWMF shall be replaced during the next available planting season (October-March inclusive) with a tree or shrub to be agreed in advance in writing by the Waste Planning Authority.</p> <p>Reason: In the interest of the amenity of the local area and to ensure development is adequately screened and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP78.</p>	
57. No development shall take place until details of tree retention and protection measures have been submitted.	<p>59. No development shall commence until details of tree retention and protection measures have been submitted to and approved in writing by the Waste Planning Authority. The details shall include indications of all existing trees, shrubs and hedgerows on the site and on the immediate adjoining land together with measures for their protection and the approved scheme shall be implemented in accordance with the details approved.</p> <p>Reason: In the interest of visual amenity and to ensure protection for the existing natural environment and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP78.</p>	
58. No development until details for the protection and watering of trees adjacent to the retaining wall have been submitted and approved.	<p>60. No development shall commence until a scheme for the management and watering of trees adjacent to the retaining wall surrounding the IWMF for the period of the excavation of materials and construction of the IWMF, and throughout the first growing season after completion of construction where necessary, has been submitted to and approved in writing by the Waste Planning Authority. The management and watering of trees shall be carried out in accordance with the scheme approved.</p> <p>Reason: In the interest of visual amenity and to ensure protection for the existing natural environment and to comply with MLP policy MLP13, WLP policy W10E and BDLPR policy RLP78.</p>	

<p>Conditions subject to which ECC resolved it was minded to grant planning permission on 24 April 2009</p>	<p>Proposed conditions</p>	<p>Comments by parties</p>
<p>Woodhouse Farm/Visitors/Education Centre</p>		
<p>59. No beneficial use shall take place of the visitor and education centre and/or waste management facility until the works to Woodhouse Farm (which require further permissions/consents) have been implemented.</p> <p>60. No development shall commence until details have been submitted of the detailed layout of the parking area adjacent to Woodhouse Farm including hard and soft landscaping details have been submitted for approval.</p> <p>61. No parking within the Woodhouse Farm complex shall take place until suitable vehicle restrictions have been submitted for approval and implemented to prevent access by HGVs except for specific deliveries to the complex.</p>	<p>61. No beneficial use of Woodhouse Farm shall commence until details of the layout of the adjacent parking area including hard and soft landscaping and lighting have been submitted to and approved in writing by the Waste Planning Authority. The parking area shall be provided in accordance with the details approved prior to beneficial use of Woodhouse Farm.</p> <p>Reason: In the interest of the amenity of the local area and to comply with WLP policy W10E and BDLPR policy RLP90 and RLP100.</p>	
	<p>62. Prior to commencement of development details of traffic calming measures designed to reduce the speed of traffic using the access road in the vicinity of the River Blackwater so as to protect potential crossing places for otters and voles have been submitted to and approved in writing by the Waste Planning Authority. The traffic calming measures shall be provided in accordance with the details approved.</p> <p>Reason: To ensure minimum impact on the safe movement of otters and voles and to comply with WLP policy W10E.</p>	
	<p>63. Prior to commencement of development details of the lining and signing of the crossing points of the access road with Church Road and Ash Lane shall be submitted to and approved in writing with the Waste Planning Authority. The lining and signing shall require users of the access road to "Stop" rather than "Give Way". The details shall be implemented as approved.</p> <p>Reason: In the interests of highway safety and safeguarding local amenity and to comply with WLP Policy W10E and BDLPR policy RLP87.</p>	

Secretary of State's Decision Letter of 2 March 2010

Appendix I

Mr David Watkins
Linklaters LLP
One Silk Street
London
EC2Y 8HQ

Our Ref: APP/Z1585/V/09/2104804

2 March 2010

Dear Mr Watkins,

**TOWN AND COUNTRY PLANNING ACT 1990 – SECTION 77.
APPLICATION BY GENT FAIRHEAD & Co LIMITED
RIVENHALL AIRFIELD, ESSEX, C5 9DF. APPLICATION REF: ESS/37/08/BTE.**

1. I am directed by the Secretary of State to say that consideration has been given to the report of the Inspector, M P Hill BSc MSc CEng MICE FGS, who held a public local inquiry which opened on 29 September into your client's application for an Integrated Waste Management Facility comprising: Anaerobic Digestion Plant treating mixed organic waste, producing biogas converted to electricity through biogas generators; Materials Recovery Facility for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals; Mechanical Biological Treatment facility for the treatment of residual municipal and residual commercial and industrial wastes to produce a solid recovered fuel; De-inking and Pulping Paper Recycling Facility to reclaim paper; Combined Heat and Power Plant (CHP) utilising solid recovered fuel to produce electricity, heat and steam; extraction of minerals to enable buildings to be partially sunken below ground level within the resulting void; visitor/education centre; extension to existing access road; provision of offices and vehicle parking; and associated engineering works and storage tanks, at Rivenhall Airfield, Essex, C5 9DF, in accordance with application reference ESS/37/08/BTE, dated 28 August 2008.

2. It was directed on 12 May 2009, in pursuance of Section 77 of the Town and Country Planning Act 1990, that the application be referred to the Secretary of State instead of being dealt with by the relevant planning authority, Essex County Council because the proposals may conflict with national policies on important matters.

Inspector's recommendation and summary of the decision

3. The Inspector recommended that planning permission be granted subject to conditions. For the reasons given below, the Secretary of State agrees with his recommendation. A copy of the Inspector's report (IR) is enclosed. All references to paragraph numbers, unless otherwise stated, are to that report.

Michael Taylor
Decision Officer
Planning Central Casework Division,
Department for Communities and Local Government
1/J1 Eland House
Bressenden Place
London, SW1E 5DU

Tel: [REDACTED]
Email: PCC@communities.gsi.gov.uk

Procedural matters

4. The Secretary of State notes that the applicants wished the proposal to be considered on the basis of a revised design. Like the Inspector, the Secretary of State does not consider that any prejudice has been caused to any party by accepting these amendments, and has determined the application on this basis (IR1.5).

5. In reaching his decision, the Secretary of State has taken into account the Environmental Information which was submitted under the Town and Country Planning (Environmental Impact Assessment) (England and Wales) Regulations 1999 and comprises those documents set out by the Inspector at IR1.6. The Secretary of State considers that the environmental information as a whole meets the requirements of these regulations and that sufficient information has been provided for him to assess the environmental impact of the application.

6. The Secretary of State notes that the Inspector closed the inquiry in writing on 2 November, having taken into account correspondence received after the last sitting day of the inquiry from the main parties in relation to representations from the Environment Agency (IR1.10). These matters have been dealt with by the Inspector in his report, and the Secretary of State has concluded on them later in this letter. Other correspondence unrelated to this matter was also received from 8 other parties after the last sitting day of the inquiry and the Secretary of State has carefully considered this. However, he does not consider that it raises any new issues which would either affect his decision, or require him to refer back to parties prior to reaching his decision. Copies of this correspondence are not attached to this letter but may be obtained on written request to the above address.

Policy Considerations

7. Section 38(6) of the Planning and Compulsory Purchase Act 2004 requires that proposals be determined in accordance with the development plan unless material considerations indicate otherwise. In this case, the development plan comprises those documents listed at IR3.2. The Secretary of State agrees with the Inspector that the main development plan policies relevant to this application are those set out in IR3.3-3.5.

8. Other material considerations include the national planning guidance listed at IR3.8 and those other documents listed at IR3.9. Circular 11/95, *Use of Conditions in Planning Permission*, and Circular 05/2005, *Planning Obligations* are also material considerations.

9. The Secretary of State has had special regard to the desirability of preserving nearby listed buildings and their settings, or any features of special architectural or historic interest which they possess, as required by sections 16 and 66 of the Planning (Listed Buildings and Conservation Areas) Act 1990. In view of the possible impact of the proposal on the Silver End Conservation Area, the Secretary of State has also paid special attention to the desirability of preserving or enhancing the character or appearance of this area, as required by section 72 of the same Act.

10. Since the inquiry closed the Government has published PPS4: *Planning for Sustainable Economic Growth*. The policies in this document replace, amongst other things, certain relevant policies in PPS7: *Sustainable Development in Rural Areas*. However, the Secretary of State does not consider that there has been any material change in those policies to the extent that it would affect his decision or require him to refer back to parties for further representations prior to reaching his decision.

Main Issues

11. The Secretary of State considers the main issues in this case are those set out by the Inspector at IR13.1.

Prevailing planning policy

12. The Secretary of State agrees with the Inspector's reasoning and conclusions on prevailing planning policy as set out in IR13.2-13.11. He agrees that the proposal is broadly consistent with the policies of the development plan, although it does not comply with all policies (IR13.10). He also agrees that the proposal is generally in accord with national guidance, including that contained in PPS1, PPS7, PPS10, PPG15, PPS22 and PPS23, albeit he accepts there is some conflict (IR13.11). These issues are considered further below.

The quality of the design and sustainability implications, and impact on character and appearance of the area

13. The Secretary of State agrees with the Inspector's reasoning and conclusions on the quality of design, sustainability, and impact on the character and appearance of the area as set out in IR13.12-13.31. He agrees that the design of the proposal would be of high quality (IR13.22), including, for example, the siting of the buildings below ground level and the green roof of the main buildings which would be colonised with mosses (IR13.13). He also agrees that it would be a sustainable form of development which would enable the management of waste to be undertaken in a sustainable manner (IR13.22), including the use of solid recovered fuel in the proposed CHP plant and the export of electricity to the National Grid, which would contribute to meeting the Government's Renewable Energy targets (IR13.19). He further agrees that the proposal would have some urbanising and detrimental impact on the semi-rural character and appearance of the area, for example as a result of the proposed stack, but that with the mitigation measures proposed the overall impact on the character and appearance of the area would be limited (IR13.31).

Consistency with PPS10

14. The Secretary of State agrees with the Inspector's reasoning and conclusions on consistency with PPS10 as set out in IR13.32-13.40. He agrees that the proposal would help to deliver sustainable development by driving waste management up the waste hierarchy, and contribute towards ensuring the timely provision of sufficient waste management facilities to meet the needs of the community. He also agrees that it would help to reduce carbon emissions and would have benefits in terms of climate change (IR13.40).

Need, viability, flexibility and fallback position

15. The Secretary of State agrees with the Inspector's reasoning and conclusions on need, viability, flexibility and the fallback position as set out in IR13.41-13.65. He agrees that the proposal would help to satisfy a substantial and demonstrable need for municipal solid waste and/or commercial and industrial waste to be dealt with in Essex and for Essex County Council to meet challenging targets set out in the East of England Plan (IR13.51). In terms of viability, he agrees that there is no reason to doubt that the MDIP would be capable of competing with a similar facility sited at a paper mill and in this respect it is a viable proposal (IR13.54). On the fallback position, the Secretary of State agrees that there was a reasonable prospect of the recycling and composting facility for which planning permission has already been granted being implemented in the event that he had refused planning permission for the proposal before him (IR13.60). As for the flexibility of the proposal, the Secretary of State agrees that its design and its multiple autonomous process lines would provide a reasonable and sufficient degree of flexibility to enable future changes in the composition of waste and the ways in which waste is managed to be accommodated (IR13.65).

The effect on the living condition of local residents, including the risks to human health

16. The Secretary of State agrees with the Inspector's reasoning and conclusions on the effect on the living condition of local residents, including the risks to human health as set out in IR13.66-13.95. He agrees that air quality could be adequately controlled and there would be no noticeable emissions of dust or odour, but that there would be some minor detrimental impact on living conditions with respect to noise, impact on tranquillity, increase in light, and outlook. However, he is satisfied that the detrimental impacts would be relatively minor and would not be unacceptable (IR13.85). With respect to the risks to human health, the Secretary of State agrees with the Inspector that the plant could be operated without causing any material harm to human health, and that this matter would be adequately dealt with by the Environmental Permitting regime. Like the Inspector, he accepts that the concern of local residents regarding the risk to health would remain as a detrimental impact of the development (IR13.95).

Highway safety and the free flow of traffic

17. For the reasons given in IR13.96-13.104, the Secretary of State agrees with the Inspector's conclusion that the proposed restriction on the number of HGV movements is reasonable and appropriate and that the development would not have an unacceptable impact on highway safety and the free flow of traffic on the road network (IR13.104).

Impact on the local right of way network

18. For the reasons given in IR13.105-13.107, the Secretary of State agrees with the Inspector's conclusion that the impact on the right of way network would be detrimental, (for example, in terms of visual impact) but not to an unacceptable degree (IR13.107).

Ground and surface water; loss of agricultural land; and, habitats, wildlife and protected species

19. The Secretary of State agrees with the Inspector's reasoning and conclusions on ground and surface water; loss of agricultural land; and, habitats, wildlife and protected species, as set out in IR13.108-13.117. With regard to ground and surface water, the Secretary of State agrees that the proposal could be built and operated without causing harm to the River Blackwater or causing contamination to groundwater (IR13.109), and that any localised lowering of the water table as a result of excavations would have little impact on vegetation (IR13.110). On the loss of agricultural land, the Secretary of State agrees that the proposal would result in the loss of Grade 3a agricultural land, which represents a conflict with local and national planning policies (IR13.111). However, he also agrees that its loss is not an overriding issue (IR13.112). With respect to habitats, wildlife and protected species, the Secretary of State agrees with the Inspector that, taking into account the proposed management of existing and proposed water bodies, the creation and management of new habitats, and the planting of woodland and hedgerows, the overall bio-diversity of the area would be enhanced (IR13.117).

The impact on listed buildings and the Silver End Conservation area, and the historic value of the airfield

20. The Secretary of State agrees with the Inspector's reasoning and conclusions on the impact on listed buildings and the Silver End Conservation area, and the historic value of the airfield, as set out in IR13.118-13.125. He agrees that the scheme as a whole would preserve the settings, character and appearance of the listed buildings and of the conservation area (IR13.122 and 13.123). He also agrees that there is no justification for withholding planning permission at the site because of its historic value as an airfield (IR13.125).

Other matters and mitigation measures

21. The Secretary of State agrees with the Inspector's reasoning and conclusions on other matters and mitigation measures, as set out in IR13.126-13.129.

Conditions and obligations

22. The Secretary of State agrees with the Inspector's reasoning and conclusions on conditions and obligations, as set out in IR13.131-13.162. On the specific matter of the Secretary of State's view on whether a taller stack would be acceptable, he agrees with the Inspector's opinion at IR13.159 that until a more thorough assessment is undertaken and the views of all those who may be affected by such a change in the proposal have been thoroughly canvassed, no firm conclusions can be reached, and that with regard to the existing proposals, condition 56 is appropriate.

23. The Secretary of State is satisfied that the recommended conditions are reasonable and necessary and meet the tests of Circular 11/95. He also considers that the s106 agreement is relevant to the proposal and would meet the tests contained Circular 05/2005.

Overall conclusion

24. As set out above, the Secretary of State has identified some conflict with development plan policies, such as those brought about by the impact on the character and appearance of the area, impact on living conditions, and loss of Grade 3a agricultural land. However, he also considers that mitigation measures proposed would reduce this impact, and that they are not of such a magnitude as to refuse planning permission.

25. Those factors in favour of the proposal include that it would meet a need for the sustainable management of waste in line with PPS10, and would help to reduce carbon emissions. The proposal would also operate without causing any material harm to human health.

26. Having weighed up all relevant considerations, the Secretary of State concludes that the factors which weigh in favour of the proposed development outweigh its shortcomings and overcome the limited conflicts with the development plan which he has identified. Therefore he does not consider that there are any material considerations of sufficient weight which would justify refusing planning permission.

Formal decision

27. Accordingly, for the reasons given above, the Secretary of State agrees with the Inspector's recommendation. He hereby allows your client's appeal and grants planning permission for an Integrated Waste Management Facility comprising: Anaerobic Digestion Plant treating mixed organic waste, producing biogas converted to electricity through biogas generators; Materials Recovery Facility for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals; Mechanical Biological Treatment facility for the treatment of residual municipal and residual commercial and industrial wastes to produce a solid recovered fuel; De-inking and Pulping Paper Recycling Facility to reclaim paper; Combined Heat and Power Plant utilising solid recovered fuel to produce electricity, heat and steam; extraction of minerals to enable buildings to be partially sunken below ground level within the resulting void; visitor/education centre; extension to existing access road; provision of offices and vehicle parking; and associated engineering works and storage tanks, in accordance with application number ESS/37/08/BTE dated 26 August 2008 (as amended) subject to the conditions listed in Annex A.

28. An applicant for any consent, agreement or approval required by a condition of this permission for agreement of reserved matters has a statutory right of appeal to the Secretary of State if consent, agreement or approval is refused or granted conditionally or if the Local Planning Authority fail to give notice of their decision within the prescribed period.

29. This letter does not convey any approval or consent which may be required under any enactment, bye-law, order or regulation other than section 57 of the Town and Country Planning Act 1990.

30. This letter serves as the Secretary of State's statement under regulation 21(2) of the Town and Country (Environmental Impact Assessment) (England and Wales) Regulations 1999.

Right to challenge the decision

31. A separate note is attached setting out the circumstances in which the validity of the Secretary of State's decision may be challenged by making an application to the High Court within six weeks from the date of this letter.

32. A copy of this letter has been sent to Essex County Council and all parties who appeared at the inquiry.

Yours sincerely

Michael Taylor
Authorised by Secretary of State to sign in that behalf

Annex A – Planning Conditions

1. The development hereby permitted shall be begun before the expiration of 5 years from the date of this permission. Not less than 30 days prior notification of commencement of the development shall be given in writing to the Waste Planning Authority.

2. The development hereby permitted shall only be carried out in accordance with drawing numbers:

1-1: Land Ownership & Proposed Site Plan

1-2: Proposed Planning Application Area

1-4: Access Road Details

1-5A: Typical Arrangement and Architectural Features of the eRCF

1-8: Schematic Arrangement of Woodhouse Farm

1-9: eRCF Simplified Process Flow

1-10: eRCF Integrated Process Flow

3-3: Site Plan Layout

3-8C: eRCF General Arrangement

3-12C: eRCF Detailed Cross-Sections

3-14A: eRCF Upper Lagoon & Wetland Shelf

3-16: Services Plan

3-19B: eRCF General Arrangement

8-6: Landscape Mitigation Measures

IT569/SK/06: Proposed Improvements to Site Access Road Junction with Church Road

IT569/SK/07: Proposed Improvements to Site Access Road Junction with Ash Lane

19-2B: Tree Survey

19-3B: The Constraints and Protection Plan

19-5: eRCF Base Plan Woodhouse Farm

3. The total number of Heavy Goods Vehicle (HGV¹) movements associated with the excavation of materials (i.e. overburden, sand, gravel, and boulder clay) and import and/or export of materials associated with the operation of the completed Integrated Waste Management Facility (IW²) hereby permitted shall not exceed the following limits:

404 movements 202 in and 202 out per day (Monday to Friday);

202 movements 101 in and 101 out per day (Saturdays);

and shall not take place on Sundays, Public or Bank Holidays, except for clearances from Household Waste Recycling Centres between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority. No HGV movements shall take place outside the hours of operation authorised in Conditions 34 & 36 of this permission.

¹An HGV shall be defined as having a gross vehicle weight of 7.5 tonnes or more.

² IW² shall be defined as the buildings, structures and associated plant and equipment for the treatment of waste at the site.

4. The total number of HGV vehicle movements associated with the construction of the IW² (including deliveries of building materials) when combined with the maximum permitted vehicle movements under Condition 3 shall not exceed the following limits:

404 movements 202 in and 202 out per day (Monday to Sunday).

No HGV movements shall take place outside the hours of operation authorised in Condition 35 of this permission.

5. A written record of daily HGV movements into and out of the site shall be maintained by the operator from commencement of the development and kept for the previous 2 years and shall be supplied to the Waste Planning Authority within 14 days of a written request . The details for each vehicle shall include the identity of the vehicle operator, the type and size of the vehicle, the vehicle registration number, and an indication of whether the vehicle is empty or loaded.

6. No development shall commence until full details of the extended access road and the layout of the cross-over points (both temporary and permanent) where the access road, both existing and proposed, crosses public footpaths, as shown on the Definitive Map and Statement of Public Rights of Way have been submitted to and approved in writing by the Waste Planning Authority. The extended access road and cross-over points shall be implemented in accordance with the approved details.

7. No works on the construction of the IWFM shall commence until the access road extension and widening and all footpath cross-over points have been constructed.

8. No vehicles shall access or egress the site except via the access onto the Coggeshall Road (A120 trunk road) junction as shown on application drawing Figure 1-2.

9. No vehicles shall park on the haul road between the A120 and Ash Lane.

10. No development or preliminary groundworks shall take place until a written scheme and programme of archaeological investigation and recording has been submitted to and approved in writing by the Waste Planning Authority. The scheme and programme of archaeological investigation and recording shall be implemented prior to the commencement of the development hereby permitted or any preliminary groundworks.

11. No airfield buildings and/or structures shall be demolished until the Level 3 survey in accordance with the 2006 English Heritage Guidance entitled "Understanding Historic Buildings: A Guide to Good Recording Practice" of the airfield buildings and/or structures has been completed.

12. No ecological management works affecting the moat adjacent to Woodhouse Farm shall commence until details of the proposed works and proposed water supply for the moat and a timescale for its implementation have been submitted to and approved in writing by the Waste Planning Authority. The works to the moat and water supply arrangements shall be implemented in accordance with the details approved.

13. No development shall commence until details of signage, telecommunications equipment and lighting within the Woodhouse Farm complex (comprising Woodhouse Farmhouse, the Bakehouse, and the listed pump together with the adjoining land outlined in green on Plan 1 (which can be found in the S106 agreement)) have been submitted to and approved in writing by the Waste Planning Authority. The signage, telecommunications equipment and lighting shall be implemented in accordance with the details approved.

14. No development shall commence until details of the design of the stack serving the IWFM have been submitted to and approved in writing by the Waste Planning Authority. The details to be submitted shall include:

- (a) elevations, sections and plan views to appropriate scales and construction details;
- (b) samples of the finish of the stack to provide a mirrored reflective surface; and

(c) information on the effect of weathering on the proposed stack material or how the effect of weathering is to be assessed by, for example the location on the site of examples of proposed materials which will be exposed to the elements and details of how the stack would be maintained to retain the quality of the surface of these materials.

The stack shall be constructed and maintained in accordance with the details approved

15. No development shall commence until design details and samples of the external construction materials, colours and finishes of the external cladding of the IWMF buildings and structures, and design and operation of the vehicle entry and exit doors, have been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the details and samples approved.

16. Not used

17. No development shall commence until a management plan for the CHP plant to ensure there is no visible plume from the stack has been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the approved plan.

18. No construction of the IWMF shall commence until details of the green roofs proposed for the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The green roofs shall be implemented in accordance with the details approved.

19. No works to install process equipment or plant within the IWMF shall commence until details of the IWMF process layout and configuration have been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the approved details.

20. No development shall commence until details of the construction compounds and parking of all vehicles and plant and equipment associated with the extraction of materials and the construction of the IWMF have been submitted to and approved in writing with the Waste Planning Authority. The details shall include location, means of enclosure and surfacing. The compounds and parking shall be implemented in accordance with the approved details.

21. No beneficial occupation of the IWMF shall commence until details of the provision to be made for and the marking out of parking spaces for cars, HGVs and any other vehicles that may use the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The parking provision and marking out shall be implemented in accordance with the approved details. The parking areas shall be retained and maintained permanently for manoeuvring and parking. No HGVs shall park in the parking area adjacent to Woodhouse Farm complex except in relation to deliveries for the uses at Woodhouse Farm complex.

22. No development shall commence until a detailed scheme for foul water management, including details of the design and operation of the foul water system for the IWMF and Woodhouse Farm complex has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall be implemented in accordance with the details approved prior to the commencement of operation of the IWMF.

23. No development shall commence until a detailed scheme for surface water drainage and ground water management, including details of water flows between the Upper Lagoon and the New Field Lagoon has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall be implemented in accordance with the approved details.

24. No excavation shall commence until a scheme of ground water monitoring for the site has been submitted to and approved in writing by the Waste Planning Authority. The scheme shall identify the locations for the installation of boreholes to monitor groundwater and the frequency of monitoring. The scheme shall be implemented in accordance with the details approved prior to the commencement of excavations on the site.

25. No development shall commence until an investigation to identify whether the site is contaminated has been carried out and details of the findings including any land remediation and mitigation measures necessary should contamination be identified. The development shall be implemented in accordance with the approved details including any remediation and mitigation identified.

26. The market de-inked paper pulp plant shall only source its heat steam and energy from the IWWMF with the exception of periods of start-up and maintenance and repair of the IWWMF.

27. No waste, except pre-sorted waste paper and card and Solid Recovered Fuel, shall be brought on to the site other than that arising from within the administrative area of Essex and Southend-on-Sea. Records indicating the origin of all waste consignments and tonnages brought to the site shall be kept and made available for inspection by the Waste Planning Authority for at least 2 years after receipt of the waste. The records shall be made available to the Waste Planning Authority within 14 days of a written request.

28. (i) SRF shall be sourced internally from the IWWMF or within the administrative boundaries of Essex and Southend-on-Sea.

(ii) If the Waste Planning Authority is satisfied that the operator has used its reasonable endeavours to source SRF from these sources and there remains capacity within the IWWMF, then SRF arising from elsewhere within the East of England may be used up to the available capacity for a period up to three years from the date of the agreement of the Waste Planning Authority.

(iii) No development shall commence until a scheme giving effect to the requirement of clause (i) above of this condition is submitted to and approved in writing by the Waste Planning Authority. The approved scheme shall be implemented as approved.

29. No waste other than those waste materials defined in the application shall enter the site for processing or treatment in the IWWMF plant. No more than 853,000tpa of Municipal Solid Waste and/or Commercial and Industrial Waste shall be imported to the site.

30. (i) No more than 50% of the imported waste paper and card (based on a nominal imported tonnage of pre-sorted waste paper and card of 360,000 tpa) shall be sourced from outside the administrative boundaries of the East of England Region.

(ii) If the Waste Planning Authority is satisfied that the operator has used its reasonable endeavours to source 50% of the imported pre-sorted waste paper and card from within the East of England region, then the imported pre-sorted waste paper and card may be sourced from outside the East of England Region for a period of up to 5 years from the date of written agreement of the Waste Planning Authority.

(iii) No development shall commence until a scheme giving effect to the requirement of clause (i) above of this condition is submitted to and approved in writing by the Waste Planning Authority. The approved scheme shall be implemented as approved.

31. No waste brought onto the site shall be deposited, handled, stored, composted or otherwise processed outside the IWWMF buildings and structures.

32. All waste materials shall be imported and exported from the site in enclosed, containerised or sheeted vehicles.

33. No vehicle shall leave the IWWMF site without first having been cleansed of all loose residual mineral or waste materials from the vehicle's body and chassis.

34. No removal of soils or excavation of overburden, boulder clay, sand and gravel shall be carried out other than between the following hours:
07:00-18:30 hours Monday to Friday; and,
07:00 -13:00 hours Saturdays;
and shall not take place on Sundays, Bank and Public Holidays

except for water pumping, environmental monitoring and occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.

35. The construction works (including deliveries of building materials) for the development hereby permitted shall only be carried out between 07:00-19:00 hours Monday to Sunday and not on Bank and Public Holidays except for occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.

36. No waste or processed materials shall be imported or exported from any part of the IWWMF other than between the following hours:
07:00 and 18:30 hours Monday to Friday; and,
07:00 and 13:00 hours on Saturdays, and not on Sundays, Public or Bank Holidays

except for clearances from Household Waste Recycling Centres on Sundays and Bank and Public Holidays between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority.

37. No development shall commence until visible, legible and durable British Standard signs have been erected on both sides of the access road at the point where footpaths as shown on the Definitive Map, cross the access road to warn pedestrians and vehicles of the intersection. The signs shall read: 'CAUTION: PEDESTRIANS CROSSING' and 'CAUTION: VEHICLES CROSSING' and shall be maintained for the duration of the development.

38. Except for temporary operations, as defined in Condition 42, between the hours of 07:00 and 19:00 the free field Equivalent Continuous Noise Level (LAeq 1 hour) at noise sensitive properties adjoining the Site, due to operations in the Site, shall not exceed the LAeq 1 hour levels set out in the following table:

Noise Sensitive Properties
Location Criterion
dB L A eq 1 hour

Herring's Farm	45
Deeks Cottage	45
Haywards	45
Allshot's Farm	47
The Lodge	49
Sheepcotes Farm	45
Greenpastures Bungalow	45
Goslings Cottage	47
Goslings Farm	47

Goslings Barn	47
Bumby Hall	45
Parkgate Farm Cottages	45

Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.

39. The free field Equivalent Continuous Noise Level (LAeq 1 hour) shall not exceed 42 dB(A) LAeq 1hour between the hours of 19:00 and 23:00, as measured or predicted at noise sensitive properties, listed in Condition 38, adjoining the site. Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.

40. The free field Equivalent Continuous Noise Level (LAeq 1 hour) shall not exceed 40 dB(A) LAeq 5min between the hours of 23:00 and 07:00, as measured and/or predicted at 1 metre from the façade facing the site at noise sensitive properties, listed in Condition 38, adjoining the site.

41. Noise levels shall be monitored at three monthly intervals at up to five of the locations, listed in Condition 38, as agreed with the Waste Planning Authority. The results of the monitoring shall include the LA90 and LAeq noise levels, the prevailing weather conditions, details of the measurement equipment used and its calibration and comments on the sources of noise which control the noise climate. The survey shall be for four separate 15 minute periods, two during the working day 0700 and 1830, and two during the evening/night time 18:30 to 07:00 hours, the results shall be kept by the operating company during the life of the permitted operations and a copy shall be supplied to the Waste Planning Authority. After the first year of operation of the IWMMF, the frequency of the monitoring may be modified by agreement with the Waste Planning Authority.

42. For temporary operations at the site in relation to the excavation of materials, the free field noise level at sensitive properties, listed in Condition 38, adjoining the site shall not exceed 70dB LAeq 1 hour, due to operations on the site. Temporary operations shall not exceed a total of eight weeks in any continuous 12 month period for work affecting any noise sensitive property. Not less than 5 days written notice shall be given to the Waste Planning Authority in advance of the commencement of any temporary operation. Temporary operations shall include site preparation, bund formation and removal, site stripping and restoration, and other temporary activity as may be agreed, in advance of works taking place, with the Waste Planning Authority.

43. No lighting for use during excavation of materials or construction of the IWMMF within the site shall be erected or installed until details of the location, height, design, sensors and luminance have been submitted to and approved in writing by the Waste Planning Authority. The lighting details shall be such that no lighting shall exceed 5 lux maintained average luminance. The lighting details with respect to excavation of materials shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. The lighting details with respect to construction of the IWMMF shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1900 Monday to Sunday and at no time on, Bank or Public Holidays except for security and safety lighting activated by sensors. The details shall ensure the lighting is designed to minimise the potential nuisance of light spillage from the boundaries of the site. The lighting shall thereafter be erected, installed and operated in accordance with the approved details.

44. No lighting for use during operation of the IWMF within the site shall be erected or installed until details of the location, height, design, sensors, times and luminance have been submitted to and approved in writing by the Waste Planning Authority. The lighting details shall be such that no lighting shall exceed 5 lux maintained average luminance. The lighting details shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. The details shall ensure the lighting is designed to minimise the potential nuisance of light spillage from the boundaries of the site. The lighting shall thereafter be erected, installed and operated in accordance with the approved details.

45. No development shall commence until a detailed phasing scheme for the construction of the access road for the creation of the retaining wall around the site of the IWMF and extraction of the minerals from the site has been submitted to and approved in writing by the Waste Planning Authority. The development shall be carried out in accordance with the approved phasing scheme.

46. No development shall commence until details of soil handling, soil storage and machine movements and the end use of soils have been submitted to and approved in writing by the Waste Planning Authority. The development shall be carried out in accordance with the details approved.

47. Unless otherwise agreed in writing by the Waste Planning Authority, no topsoil, subsoil and/or soil making material shall be stripped or handled unless it is in a dry and friable condition³ and no movement of soils shall take place:

During the months November to March (inclusive);

(a) When the upper 50 mm of soil has a moisture content which is equal to or greater than that at which the soil becomes plastic, tested in accordance with the 'Worm Test' as set out in BS1377:1977, 'British Standards Methods Test for Soils for Civil Engineering Purposes'; or

(b) When there are pools of water on the soil surface.

³ The criteria for determining whether soils are dry and friable involves an assessment based on the soil's wetness and lower plastic limit. This assessment shall be made by attempting to roll a ball of soil into a thread on the surface of a clean glazed tile using light pressure from the flat of the hand. If a thread of 15cm in length and less than 3mm in diameter can be formed, soil moving should not take place until the soil has dried out. If the soil crumbles before a thread of the aforementioned dimensions can be made, then the soil is dry enough to be moved.

48. No minerals processing other than dry screening of excavated sand and gravel or in the reformation of levels using Boulder or London Clays shall take place within the site.

49. Any fuel, lubricant or/and chemical storage vessel whether temporary or not shall be placed or installed within an impermeable container with a sealed sump and capable of holding at least 110% of the vessel's capacity. All fill, draw and overflow pipes shall be properly housed within the bunded area to avoid spillage. The storage vessel, impermeable container and pipes shall be maintained for the duration of the development.

50. Prior to the commencement of development, details of any temporary or permanent site perimeter fencing shall be submitted to and approved in writing by the Waste Planning Authority. The fencing shall be erected in accordance with the details approved.

51. (a) No development shall take place until a scheme and programme of measures for the suppression of dust, have been submitted to and approved in writing by the Waste Planning Authority. The scheme shall include the suppression of dust caused by the moving, processing and storage of soil, overburden, stone and other materials within the

site during excavation of materials and construction of the IWMF

(b) No beneficial occupation of the IWMF shall commence until a scheme and programme of measures for the suppression of dust, have been submitted to and approved in writing by the Waste Planning Authority. The scheme shall include:

- (i) ; The suppression of dust caused by handling, storage and processing of waste; and
- (ii) Dust suppression on haul roads, including speed limits.

In relation each scheme provision for monitoring and review.

The development shall be implemented in accordance with the approved schemes and programme for the duration of the development hereby permitted.

52. (a) No development shall commence until details of measures to control any fugitive odour from the excavation of materials and construction of the IWMF have been submitted to and approved in writing by the Waste Planning Authority the measures shall be implemented as approved.

(b) No beneficial occupation of the IWMF shall commence until details of equipment required to control any fugitive odour from the handling/storage/processing of waste have been submitted to and approved in writing by the Waste Planning Authority. The details shall be implemented as approved.

53. Prior to the commencement of development a further ecological survey of the Site shall be carried out to update the information contained within the Environmental Statement and the impact of the development assessed and if required mitigation measures as set out within the Environmental Statement updated and amended to mitigate any impacts. Prior to the commencement of development, the ecological survey assessment of impact and any updated and amended mitigation shall be submitted to and approved in writing by the Waste Planning Authority. Any updated or amended mitigation shall be carried out in accordance with the approved details.

54. No development shall commence until a habitat management plan including details of the proposed management and mitigation measures described in the Environmental Statement (amended) has been submitted to and approved in writing by the Waste Planning Authority. The plan shall include:

- (i) Description and evaluation of the features to be managed;
- (ii) Ecological trends and constraints on site that may influence management;
- (iii) Aims and objectives of management;
- (iv) Appropriate management options for achieving aims and objectives;
- (v) Prescriptions for management actions;
- (vi) Preparation of a work schedule (including a 5 yr project register, an annual work plan and the means by which the plan will be rolled forward annually);
- (vii) Personnel responsible for implementation of the plan; and,
- (viii) Monitoring and remedial/contingencies measures triggered by monitoring.

The development shall be implemented in accordance with the approved plan.

55. No demolition, excavation works or removal of hedgerows or trees shall be undertaken on the site during the bird nesting season [1 March to 30 September inclusive] except where a suitably qualified ecological consultant has confirmed that such construction etc should not affect any nesting birds. Details of such written confirmations shall be sent to the Waste Planning Authority 14 days prior to commencement of the works.

56. Only one stack shall be erected on the site to service all elements of the IWMF. The height of the stack shall not exceed 85 m Above Ordnance Datum.

57. No development shall commence until details and a timetable for implementation for all

bunding and planting have been submitted to and approved in writing by the Waste Planning Authority. The planting details shall include species, sizes, spacing and protection measures. The bunding details shall include shape and angles of slope and depth of soils. The scheme shall be implemented within the first available planting season (October to March inclusive) following commencement of the development hereby permitted in accordance with the approved details and maintained thereafter in accordance with Condition 58 of this permission. The bunding and planting details and timetable for implementation shall be implemented in accordance with the approved details.

58. Any tree or shrub forming part of the retained existing vegetation or the planting scheme approved in connection with the development that dies, is damaged, diseased or removed within the duration of 5 years during and after the completion of construction of the IW MF, shall be replaced during the next available planting season (October-March inclusive) with a tree or shrub to be agreed in advance in writing by the Waste Planning Authority.

59. No development shall commence until details of tree retention and protection measures have been submitted to and approved in writing by the Waste Planning Authority. The details shall include indications of all existing trees, shrubs and hedgerows on the site and on the immediate adjoining land together with measures for their protection and the approved scheme shall be implemented in accordance with the details approved.

60. No development shall commence until a scheme for the management and watering of trees adjacent to the retaining wall surrounding the IW MF for the period of the excavation of materials and construction of the IW MF, and throughout the first growing season after completion of construction where necessary, has been submitted to and approved in writing by the Waste Planning Authority. The management and watering of trees shall be carried out in accordance with the scheme approved.

61. No beneficial use of Woodhouse Farm shall commence until details of the layout of the adjacent parking area including hard and soft landscaping and lighting have been submitted to and approved in writing by the Waste Planning Authority. The parking area shall be provided in accordance with the details approved prior to beneficial use of Woodhouse Farm.

62. Prior to commencement of development, details of traffic calming measures designed to reduce the speed of traffic using the access road in the vicinity of the River Blackwater so as to protect potential crossing places for otters and voles, shall be submitted to and approved in writing by the Waste Planning Authority. The traffic calming measures shall be provided in accordance with the details approved.

63. Prior to commencement of development, details of the lining and signing of the crossing points of the access road with Church Road and Ash Lane shall be submitted to and approved in writing with the Waste Planning Authority. The lining and signing shall require users of the access road to "Stop" rather than "Give Way". The details shall be implemented as approved.

Glossary of abbreviations

BCS	Braintree District Council Local Development Framework Core Strategy 2011
BDC	Braintree District Council
BDLPR	Braintree District Local Plan Review 2005
C & I	Commercial and Industrial waste
CHP	Combined Heat and Power
EA	Environment Agency
EHO	Environmental Health Officer
EIA	Environment Impact Assessment
eRCF	evolution Recycling and Composting Facility (at Rivenhall airfield)
ES	Environmental Statement
EU	European Union
DEFRA	Department of Environment & Rural Affairs
GCN	Great Crested Newts
HGV	Heavy Goods Vehicle
IVC	IN-Vessel Composting
IWMF	Integrated Waste Management Facility
IWMF	Integrated Waste Management Facility
LACW	Local Authority Collected Waste
MBT	Mechanical Biological Treatment
MDIP	Market De-Ink Plant
MLP	Minerals Local Plan 2014
MRF	Materials Recycling facility
MW	Mega Watts
NCV	Net Calorific Value
NPPF	National Planning Policy Framework
NPPW	National Planning Policy on Waste 2014
NPS	The National Policy Statement
NWMPE	National Waste Management Plan for England
PPS10	Planning Policy Statement 10
PRoW	Public rights of way
RCF	Recycling & Composting facility
RDF	Refuse Derived Fuel
RSS	the Regional Spatial Strategy
RWLP	Pre-Submission draft Replacement Waste Local Plan
SRF	Solid Recovered Fuel
SoS	Secretary of State

TPO	Tree Preservation Order
WDA	Waste Disposal Authority
WLP	Essex and Southend Waste Local Plan adopted 2001
WPA	Waste Planning Authority
MSW	Municipal Solid Waste
WWTP	Waste Water Treatment Plant

**Appendix 4 - ESS/34/15/BTE (Variation of IWMF permission) – Decision
Notice dated 26 February 2016**

ESSEX COUNTY COUNCIL

TOWN AND COUNTRY PLANNING ACT 1990 (as amended)
Town and Country Planning (Development Management Procedure) (England)
Order 2010

In pursuance of the powers exercised by it as County Planning Authority, Essex County Council has considered an application to carry out the following development:

Variation of condition 2 (application drawings) of planning permission ESS/55/14/BTE to allow amended layout of the Integrated Waste Management Facility. The Integrated Waste Management Facility comprising: Anaerobic Digestion Plant treating mixed organic waste, producing biogas converted to electricity through biogas generators; Materials Recovery Facility for mixed dry recyclable waste to recover materials e.g. paper, plastic, metals; Mechanical Biological Treatment facility for the treatment of residual municipal and residual commercial and industrial wastes to produce a solid recovered fuel; De-inking and Pulping Paper Recycling Facility to reclaim paper; Combined Heat and Power Plant (CHP) utilising solid recovered fuel to produce electricity, heat and steam; extraction of minerals to enable buildings to be partially sunken below ground level within the resulting void; visitor/education centre; extension to existing access road; provision of offices and vehicle parking; and associated engineering works and storage tanks. And approval of details required by condition (the details taking account of the proposed amended drawings), the conditions sought to be discharged are as follows: 6 (access road, cross over points), 13 (Signage, Telecommunications & Lighting at Woodhouse Farm complex), 14 (Stack design and finishes), 15 (design details and construction materials), 17 (management plan for the CHP), 18 (green roof), 20 (construction compounds, parking of vehicles), 22 (foul water management), 23 (surface water drainage and ground water management), 24, (groundwater monitoring), 37 (signs on access road at footpath crossings), 43 (lighting scheme during construction), 45 (phasing scheme for access road, retaining wall and mineral extraction), 50 (fencing – temporary and permanent), 53 (ecological survey update), 54 (Habitat Management Plan update), 57 (landscaping – bunding & planting), 59 (trees, shrubs and hedgerows – retention and protection), 60 (tree management and watering adjacent to retaining wall), 61 (Woodhouse Farm parking and landscaping), 62 (traffic calming measures at River Blackwater for otters and voles) and 63 (access road crossing points – lining and signing)

Location: **Land at Rivenhall Airfield, Coggeshall Road (A120), Braintree CO5 9DF**

and in accordance with the said application and the plan(s) accompanying it, hereby gives notice of its decision to GRANT PERMISSION FOR the said development subject to compliance with the following conditions and reasons:

- 1 The development hereby permitted shall be begun before the 2 March 2016. The date of commencement of the development shall be notified in writing to the Waste Planning Authority within 7 days of commencement.

Reason: To comply with section 91 of the Town and Country Planning Act 1990 (as amended).

- 2 The development hereby permitted shall only be carried out in accordance with planning application ECC ref ESS/37/08/BTE (PINS Ref. APP/Z1585/V/09/2104804) dated 26 August 2008 (as amended) and

As amended by Non-Material Amendment application reference ESS/37/08/BTE/NMA2 dated 4 September 2012, accompanied by letter from Berwin Leighton Paisner dated 29 August 2012 and email dated 18 September 2012 as approved by the Waste Planning Authority on 25 October 2012.

and

As amended by planning application reference ESS/44/14/BTE dated 5 August 2014, accompanied by letter from Holmes & Hills dated 5 August 2014, report entitled "Business development since obtaining planning permission" dated August 2014, report "Changes in the Case for Need since September 2009" dated August 2014 and letters from Honace dated 5 August 2014 and Golder Associates dated 4 August 2014 and granted by the Waste Planning Authority on 4 December 2014.

and

As amended by planning application reference ESS/55/14/BTE dated 12 December 2014, accompanied by letter from Holmes & Hills LLP dated 12 December 2014, SLR report "Justification for Removal of Fuel Sourcing Conditions" Rev 4" dated December 2014 and letter from Honace dated 5 August 2014 and Golder Associates dated 4 August 2014.

And

As amended by planning application reference ESS/34/15/BTE dated 4 August 2015 and drawing numbers:

Drawing Ref	Title	Dated
1-1A	Land Ownership & Proposed Site Plan	21/12/15
1-2B	Proposed Planning Application Area and Site Plan	21/05/15
1-5B	Typical Arrangement and Architectural Features	21/05/15
1-8	Schematic Arrangement of Woodhouse Farm	21/05/15
1-9A	Simplified Process Flow	21/05/15
1-10A	Integrated Process Flow	21/05/15
3-3B	Site Plan Layout	21/05/15
3-8E	Building and Process Cross Sections	Dec 2015
3-12E	Building and Process Layout and Cross Sections	Dec 2015

3-14B	Upper Lagoon & Wetland Shelf	18/12/14
3-16	Services Plan	21/05/15
3-19D	General Arrangement & Front Elevation	Dec 2015
8-6A	Landscape Mitigation Measures	21/05/15
IT569/SK/06 A	Proposed Improvements to Site Access Road Junction with Church Road	05/08/08
IT569/SK/07 A	Proposed Improvements to Site Access Road Junction with Ash Lane	05/08/08
19-2C	Tree Survey	21/05/15
19-3C	The Constraints and Protection Plan	21/05/15
19-5A	Base Plan Woodhouse Farm	21/05/15
IWMF RP 01	IWMF Roof Layout Plan	24/12/15

And in accordance with any non-material amendment(s) as may be subsequently approved in writing by the Waste Planning Authority and except as varied by the following conditions:

Reason: For the avoidance of doubt as to the nature of the development hereby permitted, to ensure development is carried out in accordance with the approved application drawings, details (except as varied by other conditions), to ensure that the development is carried out with the minimum harm to the local environment and in accordance with MLP policies P1, S1, S10, S11, S12, DM1, DM2 and DM3, WLP policies W3A, W4A, W4B, W4C, W7A, W7C, W7G, W8A, W10B, W10E, W10F and W10G, BCS policies CS5, CS7, CS8 and CS9 and BDLPR policies RLP 36, RLP 49, RLP 54, RLP 62, RLP 63, RLP 64, RLP 65, RLP 71, RLP 72, RLP 80, RLP 81, RLP 84, RLP 87, RLP 90, RLP 100, RLP 105 and RLP 106.

- 3 The total number of Heavy Goods Vehicle (HGV¹) movements associated with the excavation of materials (i.e. overburden, sand, gravel, and boulder clay) and import and/or export of materials associated with the operation of the completed Integrated Waste Management Facility (IWMF²) hereby permitted shall not exceed the following limits:

404 movements 202 in and 202 out per day (Monday to Friday);
202 movements 101 in and 101 out per day (Saturdays);

and shall not take place on Sundays, Public or Bank Holidays, except for clearances from Household Waste Recycling Centres between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority. No HGV movements shall take place outside the hours of operation authorised in Conditions 34 & 36 of this permission.

¹ An HGV shall be defined as having a gross vehicle weight of 7.5 tonnes or more

²IWMF shall be defined as the buildings, structures and associated plant and equipment for the treatment of waste at the site.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A and W10E and BDLPR policies RLP 36 and RLP 90.

- 4 The total number of HGV vehicle movements associated with the construction of the IWMF (including deliveries of building materials) when combined with the maximum permitted vehicle movements under Condition 3 shall not exceed the following limits:
404 movements 202 in and 202 out per day (Monday to Sunday).
No HGV movements shall take place outside the hours of operation authorised in Condition 35 of this permission.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A and W10E and BDLPR policies RLP 36 and RLP 90.

- 5 A written record of daily HGV movements into and out of the site shall be maintained by the operator from commencement of the development and kept for the previous 2 years and shall be supplied to the Waste Planning Authority within 14 days of a written request. The details for each vehicle shall include the identity of the vehicle operator, the type and size of the vehicle, the vehicle registration number, and an indication of whether the vehicle is empty or loaded.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A and W10E and BDLPR policies RLP 36, RLP62 and RLP 90.

- 6 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the extended access road and crossing points with Public Right of Way. The approved details include the application for approval of details reserved by condition dated 4 August 2015 and include the following drawings:

Drawing Ref	Title	Date
IT569/PAA/01A	Horizontal & vertical alignment of extended access road Sheet 1	18/11/15
IT569/PAA/02C	Horizontal & vertical alignment of extended access road Sheet 2	18/11/15
IT569/PAA/03	Extended access road cross sections, Sheet 1	14/05/15
IT569/PAA/04	Extended access road cross sections, Sheet 2	14/05/15
IT569/PAA/05	Extended access road cross sections, Sheet 3	14/05/15
IT569/PAA/06	Extended access road cross sections, Sheet 4	14/05/15
IT569/PAA/07A	Extended access road cross sections, Sheet 5	14/07/15
IT569/PAA/08	Typical drainage details	May 2015

IT569/PAA/09	Typical access road detailed cross sections	May 2015
IT569/PAA/10	Drainage long section detail, Sheet 1	May 2015
IT569/PAA/11	Drainage long section detail, Sheet 2	May 2015
142064-DC-GA-C-116 C	Access road longitudinal section	17/12/15
142064-DC-GA-C-117	Access road cross sections	Jun 2015
IT569_WR_01_Rev A	Widening details for access road between Church Road and Ash lane	15/05/2015
IT569/S278_01G	Footpath crossing typical detail	12/11/15

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A, W10E and W10G and BDLPR policies RLP 36, RLP 49 and RLP 90.

- 7 No works on the construction of the IWMF shall commence until the access road extension and widening and all footpath cross-over points have been constructed.

Reason: In the interests of highway and pedestrian safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A, W10E and W10G and BDLPR policies RLP 36 RLP 49 and RLP 90.

- 8 No vehicles shall access or egress the site except via the access onto the Coggeshall Road (A120 trunk road) junction as shown on application drawing Figure 1-2.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A, W10E and W10G and BDLPR policies RLP 36, RLP 49 and RLP 90.

- 9 No vehicles shall park on the haul road between the A120 and Ash Lane.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1, S10 and DM1, WLP policies W4C, W8A, W10E and W10G and BDLPR policies RLP 36, RLP 49 and RLP 90.

- 10 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the scheme and programme of archaeological investigation and recording approved on 16 February 2016 under condition 10 of planning permission ESS/55/14/BTE. The approved details include: application for approval of details reserved by condition dated 4 August 2015 and the following documents:

- Project Design for Archaeological Monitoring & Recording dated November 2014 by Archaeology South-East

- Figure 2 Integrated Waste Management Facility (IWMMF) Areas 1-3 – Archaeological mitigation strategy.

Upon completion of the archaeological field work, the investigations shall be written up in a report and submitted for approval in writing by the Waste Planning Authority.

Reason: To ensure that any archaeological interest has been adequately investigated and recorded prior to the development taking place and to comply with MLP policies S10 and DM1, WLP policy W10E and BDLPR policies RLP105 and RLP 106.

- 11 The development shall be implemented in accordance with approved details with respect to the recording of the airfield buildings/structures. The record of airfield buildings/structures was approved on 16 February 2016 under condition 11 of planning permission ESS/55/14/BTE. The approved details include application for approval of details reserved by condition dated 4 August 2015 and the following document "Type T2 Aircraft Hanger at Woodhouse Farm & Other WWII structures at Rivenhall Airfield – Historic Building Records dated December 2010.

Reason: To ensure that any heritage interest has been adequately investigated and recorded prior to the development taking place and to comply with MLP policies S10 and DM1, WLP policy W10E and in accordance with the NPPF.

- 12 No ecological management works affecting the moat adjacent to Woodhouse Farm shall commence until details of the proposed works and proposed water supply for the moat and a timescale for its implementation have been submitted to and approved in writing by the Waste Planning Authority. The works to the moat and water supply arrangements shall be implemented in accordance with the details approved.

Reason: To make appropriate provision for conserving and enhancing the natural environment within the approved development, in the interests of biodiversity and to protect the setting of the Woodhouse Farm Listed Buildings and in accordance with MLP policies S10 and DM1, WLP policy W10E, BCS policy CS5, CS8 and CS9 and BDLPR policies RLP 80, RLP 84 and RLP 100.

- 13 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the signage, telecommunications equipment and lighting within the Woodhouse Farm complex (comprising Woodhouse Farmhouse, the Bakehouse, and the listed pump together with the adjoining land outlined in green on Plan 1 [which can be found in the S106 legal agreement dated 30 October 2009 associated with ESS/37/08/BTE]). The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following drawings & documents:

Drawing Ref.	Title	Dated
135	Site plan & signage proposals	Jul 2015
	APC Communications solutions – Internet & voice solutions V2	14/07/15
	Pell Frischmann – Exterior lighting design	23/07/15
DW40019H001/P1	Proposed lighting layout	22/07/2015
CW40019H001	Proposed lighting to car parking and pedestrian areas	23/07/2015
	The Pharos LED bollard – Urbis Schreder	
	The Axia (the Green light) - Schreder	

The signage, telecommunications equipment and lighting shall be implemented in accordance with the details approved.

Reason: To protect the setting of the Listed Buildings and in the interest of visual amenity and to comply with MLP policy DM1, WLP policies, W8A W10B and W10E, BCS policy CS9 and BDLPR policies RLP 36, RLP 65, RLP 90 and RLP 100.

- 14 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the design and maintenance of the stack. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following drawings and specifications:

Drawing Ref.	Title	Dated
LA01A	Chimney stack top cladding details plan & elevations	23/07/15
LA02A	Chimney stack top cladding details fixing details	23/07/15
	Alucobond reflect- technical data sheet	
	Alucobond – cleaning & maintenance of stove-lacquered surfaces	
	Genie – Self-propelled telescopic booms - specifications	
	Genie – Self-propelled telescopic booms - features	

The stack shall be constructed and maintained in accordance with the approved details throughout the life of the IWMF.

Reason: In the interest of visual amenity and to protect the countryside and to comply with WLP policies W8A, W10B and W10E and BCS policy CS5, BDLPR policies RLP 36, RLP 65 and RLP 90.

- 15 Prior to construction of the IWMF buildings or the structures to the rear of the main building details of the IWMF buildings and structures including the

design and samples of the external construction materials, colours and finishes of the external cladding of the, and design and operation of the vehicle entry and exit doors, shall be submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the details and samples approved.

Reason: For the avoidance of doubt, in the interests of visual and landscape amenity and to comply with WLP policies W8A, W10B, W10E and BCS policy CS5 and BDLPR policy RLP 90.

16 (Intentionally blank)

17 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the management plan for the CHP plant to ensure there is no visible plume from the stack. . The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and documents referenced

- S1552-0700-0008RSF entitled “CHP Management Plan for Plume Abatement” Issue no. 5 dated 16/02/16 by Fichtner
- S1552-0700-0013RSF entitled “Plume Visibility Analysis” both by Fichtner.

The development shall be implemented in accordance with the approved details.

Reason: In the interest of visual amenity, to protect the countryside and to comply with WLP policies W8A, W10B and W10E and BCS policy CS5 and BDLPR policies RLP 36, RLP 65 and RLP 90.

18 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the green roof for the main IWFM building. The approved details include the application for approval of details reserved by condition dated 4 August 2015, statement by Honace “Condition 18 Green Roof” and document entitled “Bauder extensive biodiverse vegetation (XF301)”. The green roof shall be implemented in accordance with the details approved.

Reason: In the interests of visual and landscape amenity and enhancement of ecological biodiversity and to comply with WLP policies W8A, W10B and W10E, BCS policy CS8 and BDLPR policies RLP 80, RLP 84 and RLP 90.

19 No works to install process equipment or plant within the IWFM shall commence until details of the IWFM process layout and configuration have been submitted to and approved in writing by the Waste Planning Authority. The development shall be implemented in accordance with the approved details.

Reason: To ensure the layout and configuration of the process equipment and plant would not give rise to impacts not assessed as part of the application and Environmental Statement and to protect local amenity and to comply with WLP policies W8A, W10B and W10E, BCS policy CS5 and

BDLPR policies RLP 36, RLP 62 and RLP 90.

- 20 The development hereby permitted shall be implemented in accordance with the details submitted with respect to construction compounds and parking of all vehicles and plant and equipment associated with the extraction of materials and the construction of the IWMF. The approved details include the application for approval of details reserved by condition dated 4 August 2015 and as set out on drawing CCE-HZI-50043049 Rev 0.3 dated 17/12/15. .

Reason: In the interest of visual amenity, to protect biodiversity and the countryside and to comply with MLP policies S10 and DM1, WLP policies W8A, W10B, W10E and BCS policies CS5 and CS8 and BDLPR policies RLP 36, RLP 65, RLP 80 and RLP 90.

- 21 No beneficial occupation of the IWMF shall commence until details of the provision to be made for and the marking out of parking spaces for cars, HGVs and any other vehicles that may use the IWMF have been submitted to and approved in writing by the Waste Planning Authority. The parking provision and marking out shall be implemented in accordance with the approved details. The parking areas shall be retained and maintained permanently for manoeuvring and parking. No HGVs shall park in the parking area adjacent to Woodhouse Farm complex except in relation to deliveries for the uses at Woodhouse Farm complex.

Reason: In the interest of visual amenity, to protect biodiversity and the countryside and to comply with WLP policies W8A, W10B, W10E, BCS policies CS5 and CS8 and BDLPR policies RLP 36, RLP 65, RLP 80, RLP 84 and RLP 90.

- 22 The development hereby permitted shall be implemented in accordance with the details submitted with respect to foul water management. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following drawings and documents:

Drawing Ref	Title	Dated
142064-DC-GA-C-108G	Proposed drainage layout Sheet 1 of 2	16/10/15
142064-DC-GA-C-109G	Proposed drainage layout Sheet 2 of 2	16/10/15
142064-DC-GA-C-111A	Drainage Construction details	30/06/15

And email from Honace with enclosures dated 22/01/16 (17:13).

The foul water management scheme shall be implemented in accordance with the details.

Reason: To minimise the risk of pollution on ground and surface water, to minimise the risk of flooding and to comply with WLP policies W4A, W4B,

W8A and W10E and BDLPR policies RLP 36, RLP 62, RLP 71 and RLP 72.

- 23 The development hereby permitted shall be implemented in accordance with the details submitted with respect to surface water drainage and ground water management. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following drawings and documents:

Drawing Ref	Title	Dated
142064-DC-GA-C-108G	Proposed drainage layout Sheet 1 of 2	16/10/15
142064-DC-GA-C-109G	Proposed drainage layout Sheet 2 of 2	16/10/15
142064-DC-GA-C-111A	Drainage Construction details	30/06/15

And email from Honace with enclosures dated 22/01/16 (17:13).

The surface water drainage and ground water management scheme shall be implemented in accordance with the approved details.

Reason: To minimise the risk of pollution on ground and surface water, to minimise the risk of flooding and to comply with WLP policies W4A, W4B, W8A and W10E and BDLPR policies RLP 36, RLP 62, RLP 71, RLP 72 and RLP90.

- 24 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the scheme of ground water monitoring. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following drawings and documents:

Drawing ref	Title	Dated
SOD-24 Rev A	Ground water borehole monitoring points	29/07/15
6-4	Groundwater Monitoring points	12/05/11
13 Rev A	Ground water Monitoring points	20/03/14
213033-150	As-built borehole locations	17/09/14
142064-DC-GA-C-111A	Drainage Construction details	30/06/15

- Appendix A – Bradwell Quarry Groundwater Monitoring plots Jan 2008 to Jul 2015
- CC Ground Investigations Ltd – Key to exploratory hole logs
- CC Ground Investigations Ltd – Rotary borehole log for borehole nos. BH10 (sheets 1 to 4) dated 2014, BH11 (sheets 1 to 6) dated 2014, BH19 (sheets 1 to 4) dated 2014,
- Email from Honace dated 11/02/16 (09:19)
- Email from Honace dated 11/02/16 (13:59)

Reason: To minimise the risk of pollution to ground and surface water and to comply with MLP policies MLP S1, S10 and DM1, WLP policies W4A, W4B, W8A and W10E and BDLPR policies RLP 36, RLP 62, RLP 71 and RLP 72.

25 The development hereby permitted shall be implemented in accordance with the details submitted with respect to land contamination and land remediation and mitigation measures where contamination is identified approved on 16 February 2016 under condition 25 of planning permission ESS/55/14/BTE. The approved details include: application for approval of details reserved by condition dated 4 August 2015 and the following documents:

- Condition 25 – Contaminated Land by Honace
- Rivenhall – Record Site Plan & Schedule of buildings
- Analytical Report Number : 14-59380 dated September 2014 by i2 Analytical Ltd
- Drawing no. 213033-150 As-Built Borehole Locations dated 14 July 2014

Reason: To minimise the risk of pollution to ground and surface water, to minimise the risk of flooding and to comply with MLP policies MLP S1, S10 and DM1, WLP policies W4A, W4B, W8A and W10E and BDLPR policies RLP 36, RLP 62, RLP 64, RLP 71 and RLP 72.

26 The market de-inked paper pulp plant shall only source its heat steam and energy from the IWMF with the exception of periods of start-up and maintenance and repair of the IWMF.

Reason: To ensure the market de-inked paper pulp plant only remains at the site as a direct consequence of its co-location with the IWMF and to protect the countryside from inappropriate development and to comply with WLP policies W8A and W7G and BCS policy CS5.

27 No waste, except pre-sorted waste paper and card and Solid Recovered Fuel, shall be brought on to the site other than that arising from within the administrative area of Essex and Southend-on-Sea. Records indicating the origin of all waste consignments and tonnages brought to the site shall be kept and made available for inspection by the Waste Planning Authority for at least 2 years after receipt of the waste. The records shall be made available to the Waste Planning Authority within 14 days of a written request.

Reason: In the interests of the environment by assisting the Essex and Southend-on-Sea waste planning authorities to become self-sufficient for managing the equivalent of the waste arising in their administrative areas, ensuring that the waste is transported in accordance with the proximity principle, minimising pollution and minimising the impact upon the local environment and amenity and to comply with WLP policies W3A, W3C and W10E.

28 (Intentionally blank)

29 No waste other than those waste materials defined in the application shall enter the site for processing or treatment in the IWMF plant. No more than 853,000tpa of Municipal Solid Waste and/or Commercial and Industrial Waste shall be imported to the site.

Reason: To ensure the scale of the facility would not give rise to impacts not assessed as part of the planning application and Environmental Statement and to protect local amenity and to comply with WLP policies W3A, W8A and W10E, BCS policy CS5 and BDLPR policies RLP 36, RLP 62 and RLP 90.

30 (Intentionally blank)

31 No waste brought onto the site shall be deposited, handled, stored, composted or otherwise processed outside the IWMF buildings and structures.

Reason: To ensure minimum disturbance from operations, to avoid nuisance to local amenity and to comply with WLP policies W3A, W8A and W10E, BCS policy CS5 and BDLPR policies RLP 36, RLP 62 and RLP 90.

32 All waste materials shall be imported and exported from the site in enclosed, containerised or sheeted vehicles.

Reason: To ensure minimum nuisance from operations on local amenity, particularly litter and odour and to comply with WLP policies W3A, W8A and W10E, BCS policy CS5 and BDLPR policies RLP 36, RLP 62 and RLP 90.

33 No vehicle shall leave the IWMF site without first having been cleansed of all loose residual mineral or waste materials from the vehicle's body and chassis.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with WLP policies W3A, W4C, W8A and W10E and BDLPR policies RLP 36 and RLP 90.

34 No removal of soils or excavation of overburden, boulder clay, sand and gravel shall be carried out other than between the following hours:

07:00-18:30 hours Monday to Friday; and,

07:00 -13:00 hours Saturdays;

and shall not take place on Sundays, Bank and Public Holidays except for water pumping, environmental monitoring and occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.

Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and to comply with MLP policies S1, S10 and DM1, WLP policies W10E and W10F and BDLPR policies RLP 36, RLP 62 and RLP 90.

- 35 The construction works (including deliveries of building materials) for the development hereby permitted shall only be carried out between 07:00-19:00 hours Monday to Sunday and not on Bank and Public Holidays except for occasional maintenance of machinery, unless temporary changes are otherwise approved in writing by the Waste Planning Authority.

Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and to comply with MLP policies S1, S10 and DM1, WLP policies W10E and W10F and BDLPR policies RLP 36 RLP 62 and RLP 90.

- 36 No waste or processed materials shall be imported or exported from any part of the IWMF other than between the following hours:
07:00 and 18:30 hours Monday to Friday; and,
07:00 and 13:00 hours on Saturdays,
and not on Sundays, Public or Bank Holidays except for clearances from Household Waste Recycling Centres on Sundays and Bank and Public Holidays between 10:00 and 16:00 hours as required by the Waste Disposal Authority and previously approved in writing by the Waste Planning Authority.

Reason: In the interests of limiting the effects on local amenity, to control the impacts of the development and to comply with WLP policies W10E and W10F and BDLPR policies RLP 36, RLP 62 and RLP 90.

- 37 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the signage for Public Rights of Way where they cross the access road. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following drawing no. IT569/S278_01G entitled "Footpath crossing typical detail" dated 12/11/15. The signage for Public Rights of Way implemented in accordance with the approved details and shall be maintained throughout the life of the IWMF.

Reason: In the interest of the safety of all users of both the Right of Way and the haul road and to comply with MLP policies S1, DM1, WLP policies W3A, W4C, W8A, W10E and W10G and BDLPR policies RLP 36, RLP 49, RLP 62 and RLP 90

- 38 Except for temporary operations, as defined in Condition 42, between the hours of 07:00 and 19:00 the free field Equivalent Continuous Noise Level (LAeq 1 hour) at noise sensitive properties adjoining the Site, due to operations in the Site, shall not exceed the LAeq 1 hour levels set out in the following table:

Noise Sensitive Properties Location	Criterion dB LAeq 1 hour
Herring's Farm	45
Deeks Cottage	45
Haywards	45
Allshot's Farm	47
The Lodge	49
Sheepcotes Farm	45
Greenpastures Bungalow	45
Goslings Cottage	47
Goslings Farm	47
Goslings Barn	47
Bumby Hall	45
Parkgate Farm Cottages	45

Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.

Reason: In the interests of residential and local amenity and to comply with MLP policies S1, S10, DM1, WLP policies W3A, W8A, W10E, W10F and BDLPR policies RLP 36, RLP 62 and RLP 90.

- 39 The free field Equivalent Continuous Noise Level (LAeq 1 hour) shall not exceed 42 dB(A) LAeq 1 hour between the hours of 19:00 and 23:00, as measured or predicted at noise sensitive properties, listed in Condition 38, adjoining the site. Measurements shall be made no closer than 3.5m to the façade of properties or any other reflective surface facing the site and shall have regard to the effects of extraneous noise and shall be corrected for any such effects.

Reason: In the interests of residential and local amenity and to comply with WLP policies W3A, W8A, W10E, W10F and BDLPR policies RLP 36, RLP 62 and RLP 90.

- 40 The free field Equivalent Continuous Noise Level (LAeq 1 hour) shall not exceed 40 dB(A) LAeq 5min between the hours of 23:00 and 07:00, as measured and/or predicted at 1 metre from the façade facing the site at noise sensitive properties, listed in Condition 38, adjoining the site.

Reason: In the interests of residential and local amenity and to comply with WLP policies W3A, W8A, W10E, W10F and BDLPR policies RLP 36, RLP 62 and RLP 90.

- 41 Noise levels shall be monitored at three monthly intervals at up to five of the locations, listed in Condition 38, as agreed with the Waste Planning Authority. The results of the monitoring shall include the LA90 and LAeq noise levels, the prevailing weather conditions, details of the measurement equipment used and its calibration and comments on the sources of noise

which control the noise climate. The survey shall be for four separate 15 minute periods, two during the working day 0700 and 1830, and two during the evening/night time 18:30 to 07:00 hours, the results shall be kept by the operating company during the life of the permitted operations and a copy shall be supplied to the Waste Planning Authority. After the first year of operation of the IWMF, the frequency of the monitoring may be modified by agreement with the Waste Planning Authority.

Reason: In the interests of residential and local amenity and to comply with MLP policies S1, S10, DM1, WLP policies W3A, W8A, W10E, W10F and BDLPR policies RLP 36, RLP 62 and RLP 90.

- 42 For temporary operations at the site in relation to the excavation of materials, the free field noise level at sensitive properties, listed in Condition 38, adjoining the site shall not exceed 70dB LAeq 1 hour, due to operations on the site. Temporary operations shall not exceed a total of eight weeks in any continuous 12 month period for work affecting any noise sensitive property. Not less than 5 days written notice shall be given to the Waste Planning Authority in advance of the commencement of any temporary operation. Temporary operations shall include site preparation, bund formation and removal, site stripping and restoration, and other temporary activity as may be agreed, in advance of works taking place, with the Waste Planning Authority.

Reason: In the interests of amenity and to comply with MLP policies S1, S10, DM1, WLP policies W3A, W8A, W10E, W10F and BDLPR policies RLP 36, RLP 62 and RLP 90.

- 43 The development hereby permitted shall be implemented in accordance with the details submitted with respect to lighting. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following documents:

- Condition 43 Construction lighting By Honace
- Hilcare Ltd – Project P118536R2a – Reschemed scheme as a flat open area using 6m columns and the specified number of flood lights dated 03/08/2015 including with data sheets, light locations and light level calculations

The lighting shall be erected, installed and operated in accordance with the approved details throughout the life of the IWMF. The lighting details with respect to excavation of materials shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. No lighting for construction of the IWMF shall be illuminated outside the hours of 0700 and 1900 Monday to Sunday and at no time on, Bank or Public Holidays except for security and safety lighting activated by sensors. The lighting shall be maintained such that no lighting shall exceed 5 lux maintained average luminance.

Reason: In the interests of residential and local amenity and protection of the environment and in the interest of protecting biodiversity and in the interests of highway safety and to comply with MLP policies S1, S10, S12, DM1, WLP policies W3A, W8A, W10E and W10F, BCS policies CS5 and CS8 and BDLPR policies RLP 36, RLP 62, RLP 65 and RLP 90.

- 44 No lighting for use during operation of the IWMMF within the site shall be erected or installed until details of the location, height, design, sensors, times and luminance have been submitted to and approved in writing by the Waste Planning Authority. The lighting details shall be such that no lighting shall exceed 5 lux maintained average luminance. The lighting details shall be such that the lighting shall not be illuminated outside the hours of 0700 and 1830 Monday to Friday and 0700 and 1300 Saturday and at no time on Sundays, Bank or Public Holidays except for security and safety lighting activated by sensors. The details shall ensure the lighting is designed to minimise the potential nuisance of light spillage from the boundaries of the site. The lighting shall thereafter be erected, installed and operated in accordance with the approved details.

Reason: In the interests of residential and local amenity and protection of the environment and in the interest of protecting biodiversity, in the interests of highway safety and to comply with MLP policies S1, S10, S12, DM1, WLP policies W3A, W8A, W10E and W10F, BCS policies CS5 and CS8 and BDLPR policies RLP 36, RLP 62, RLP 65 and RLP 90.

- 45 The development hereby permitted shall be implemented in accordance with the details submitted with respect to phasing of the construction of the access road, creation of the retaining structures around the site of the IWMMF and extraction of the minerals. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following drawings:

Drawing Ref	Title	Dated
IT569_PAA_12	Access Road construction phasing	Jul 2015
142064-DC-GA-C-118 B	Proposed earthworks sequencing	25/01/16

Reason: In the interests of residential and local amenity and protection of the environment and in the interest of protecting biodiversity, in the interests of highway safety and to comply with MLP policies S1, S10, S12, DM1, WLP policies W3A, W8A, W10E and W10F, BCS policies CS5 and CS8 and BDLPR policies RLP 36, RLP 62, RLP 65 and RLP 90.

- 46 The development hereby permitted shall be implemented in accordance with the details submitted with respect to soil handling, soil storage and machine movements and the end use of soils as approved on 16 February 2016 under condition 46 of planning permission ESS/55/14/BTE. The approved details include: application for approval of details reserved by condition dated 4 August 2015 and the following documents:

- Condition 46 – Soil Handling by Honace
- Figure 5-1 Agricultural land classification – Rivenhall Airfield RCF

dated 10 July 2006

- Figure 5-2 Soil types – Rivenhall Airfield RCF dated 10 July 2006
- Drawing no. 5-4 Agricultural Land Classification – Site A2 Bradwell Quarry dated 11 May 2011
- Drawing 5-5 Soil types – Site A2 Bradwell Quarry dated 11 May 2011

Reason: To minimise structural damage and compaction of the soil and ensure sustainable use of surplus soils and to aid in the restoration and planting of the site and to comply with MLP policies S1, S10 and DM1 and WLP policies W3A and W10E.

- 47 Unless otherwise agreed in writing by the Waste Planning Authority, no topsoil, subsoil and/or soil making material shall be stripped or handled unless it is in a dry and friable condition³ and no movement of soils shall take place:

During the months November to March (inclusive);

(a) When the upper 50 mm of soil has a moisture content which is equal to or greater than that at which the soil becomes plastic, tested in accordance with the 'Worm Test' as set out in BS1377:1977, 'British Standards Methods Test for Soils for Civil Engineering Purposes'; or

(b) When there are pools of water on the soil surface.

³ The criteria for determining whether soils are dry and friable involves an assessment based on the soil's wetness and lower plastic limit. This assessment shall be made by attempting to roll a ball of soil into a thread on the surface of a clean glazed tile using light pressure from the flat of the hand. If a thread of 15cm in length and less than 3mm in diameter can be formed, soil moving should not take place until the soil has dried out. If the soil crumbles before a thread of the aforementioned dimensions can be made, then the soil is dry enough to be moved.

Reason: To minimise structural damage and compaction of the soil and to aid in the restoration and planting of the site and to comply with MLP policies S1, S10 and DM1 and WLP policies W3A and W10E.

- 48 No minerals processing other than dry screening of excavated sand and gravel or in the reformation of levels using Boulder or London Clays shall take place within the site.

Reason: To ensure that there are no adverse impacts on local amenity from the development not previously assessed in the planning application and Environmental Statement and to comply with MLP policies S1, S10, DM1 and DM3, WLP policies W3A, W8A and W10E, BCS policy CS5 and BDLPR policies RLP 36, RLP 62 and RLP 90.

- 49 Any fuel, lubricant or/and chemical storage vessel whether temporary or not shall be placed or installed within an impermeable container with a sealed sump and capable of holding at least 110% of the vessel's capacity. All fill,

draw and overflow pipes shall be properly housed within the bunded area to avoid spillage. The storage vessel, impermeable container and pipes shall be maintained for the duration of the development.

Reason: To minimise the risk of pollution to water courses and aquifers and to comply with MLP policies S1, S10 and DM1, WLP policies W3A, W4A, W4B, W8A, and W10E and BDLPR policies RLP 36 and RLP 62.

- 50 The development hereby permitted shall be implemented in accordance with the details submitted with respect to temporary and permanent site perimeter fencing. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the drawings and documents

Drawing Ref	Title	Dated
CCE-HZI-500430049 Rev 0.3	Construction site layout	17/12/2015
732.1/08A HDA D1	Rabbit proof fence detail	Jun 2015
732.1/10A HDA D3	Tree protection fencing – BS 5837:2012	Jul 2015

- Condition 50 Temporary & permanent fencing by Honace
- Jacksons – Securi Mesh 358 Mesh – welded mesh panels
- Jacksons – Securi Mesh Gates – welded mesh panel

The temporary and permanent fencing and gates shall be erected in accordance with the details approved and maintained throughout the life of the IWWMF.

Reason: In the interest of visual amenity, to protect the countryside and to comply with MLP policies S10 and DM1, WLP policy W10E and BCS policies CS5 and BDLPR policies RLP 36, RLP 65 and RLP 90.

- 51 (a) The development hereby permitted shall be implemented in accordance with the details submitted with respect to a scheme and programme of measures for the suppression of dust as approved on 16 February 2016 under condition 51a of planning permission ESS/55/14/BTE. The approved details include: application for approval of details reserved by condition dated 4 August 2015 and the following documents:

- Condition 51a – Dust minimisation scheme by Honace
- Construction dust – HSE Information Sheet no. 36 (revision 2)

(b) No beneficial occupation of the IWWMF shall commence until a scheme and programme of measures for the suppression of dust, have been submitted to and approved in writing by the Waste Planning Authority. The scheme shall include:

- The suppression of dust caused by handling, storage and processing of waste; and
 - Dust suppression on haul roads, including speed limits.
- In relation each scheme provision for monitoring and review.

The development shall be implemented in accordance with the approved schemes and programme for the duration of the development hereby permitted.

Reason: To reduce the impacts of dust disturbance from the site on the local environment and to comply with MLP policies S1, S10, DM1, WLP policies W3A, W8A and W10E and BDLPR policies RLP 36, RLP 62 and RLP 90.

52 (a) The development hereby permitted shall be implemented in accordance with the details submitted with respect to measures to control fugitive odour from the excavation of materials and construction of the IWMF as approved on 16 February 2016 under condition 52a of planning permission ESS/55/14/BTE. The approved details include: application for approval of details reserved by condition dated 4 August 2015 and the following document "Condition 52a – Odour minimisation scheme by Honace"

(b) No beneficial occupation of the IWMF shall commence until details of equipment required to control any fugitive odour from the handling/storage/processing of waste have been submitted to and approved in writing by the Waste Planning Authority. The details shall be implemented as approved.

Reason: In the interests of local amenity and to comply with WLP policies W3A, W8A and W10E and BDLPR policies RLP 36, RLP 62 and RLP 90.

53 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the ecological information and mitigation. The approved ecological information and mitigation includes the following:

Ecological information approved on 27 July 2011 in accordance with condition 53 of planning permission Ref. APP/Z1585/V/09/2104804 (ECC ref ESS/37/08/BTE). The details approved included letter dated 19 May 2011 from Golder Associates with accompanying application form and Ecology report dated October 2010.

The application for approval of details reserved by condition dated 4 August 2015 and the information contained within the Ecological report by Green Environmental Consultants dated July 2015 and Appendix 7-1 Baseline ecology report August 2008.

Ecological mitigation shall be carried out in accordance with the approved details throughout the life of the IWMF.

Reason: To make appropriate provision for conserving and enhancing the natural environment, in the interests of biodiversity and in accordance with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policy CS8 and BDLPR policies RLP 80, RLP 81 and RLP 84.

- 54 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the habitat management plan. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the “Habitat Management Plan – revised July 2015 – report number 499/10” by Green Environmental Consultants and appendices A to E.

The development shall be implemented in accordance with the approved habitat management plan throughout the life of the IWMF.

Reason: To make appropriate provision for conserving and enhancing the natural environment, in the interests of biodiversity and in accordance with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policy CS8 and BDLPR policies RLP 80, RLP 81 and RLP 84.

- 55 No demolition, excavation works or removal of hedgerows or trees shall be undertaken on the site during the bird nesting season [1 March to 30 September inclusive] except where a suitably qualified ecological consultant has confirmed that such construction etc. should not affect any nesting birds. Details of such written confirmations shall be sent to the Waste Planning Authority 14 days prior to commencement of the works.

Reason: To make appropriate provision for conserving and enhancing the natural environment, in the interests of biodiversity and in accordance with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policy CS8 and BDLPR policies RLP 80, RLP 81 and RLP 84.

- 56 Only one stack shall be erected on the site to service all elements of the IWMF. The height of the stack shall not exceed 85 m Above Ordnance Datum.

Reason: In the interest of visual amenity, to protect the countryside and to comply with WLP policies W8A and W10E, BCS policy CS5 and BDLPR policies RLP 36, RLP 65 and RLP 90.

- 57 The development hereby permitted shall be implemented in accordance with the details submitted with respect to bunding and planting. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following drawings

Drawing Ref	Title	Dated
732.1_07B HDA SA1	Soft landscape proposals site access	Jun 2015
732.1_02G HDA SL1	Soft landscape proposals sheet 1 of 5	18/12/15
732.1_03G HDA SL2	Soft landscape proposals sheet 2 of 5	18/12/15
732.1_04G HDA SL3	Soft landscape proposals sheet 3 of 5	18/12/15
732.1_05G HDA SL4	Soft landscape proposals sheet 4 of 5	18/12/15
732.1_06G HDA SL5	Soft landscape proposals sheet 5 of 5	18/12/15
732.1_09 HDA D2	Standard tree pit detail	Jun 2015

Reason: To comply with section 197 of the Town and Country Planning Act 1990 (as amended), to improve the appearance of the site in the interest of visual amenity, to protect the countryside and to comply with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policies CS5 and CS8 and BDLPR policies RLP 36, RLP 62, and RLP 90.

- 58 Any tree or shrub forming part of the retained existing vegetation or the planting scheme approved in connection with the development that dies, is damaged, diseased or removed within the duration of 5 years during and after the completion of construction of the IWMF, shall be replaced during the next available planting season (October-March inclusive) with a tree or shrub to be agreed in advance in writing by the Waste Planning Authority.

Reason: To comply with section 197 of the Town and Country Planning Act 1990 (as amended), to improve the appearance of the site in the interest of visual amenity, to protect the countryside and to comply with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policies CS5 and CS8 and BDLPR policies RLP 36, RLP 62 and RLP 90.

- 59 The development hereby permitted shall be implemented in accordance with the details submitted with respect to tree retention and protection measures. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following drawings:

Drawing Ref	Title	Dated
732.1_07B HDA SA1	Soft landscape proposals site access	Jun 2015
732.1_02G HDA SL1	Soft landscape proposals sheet 1 of 5	18/12/15
732.1_03G HDA SL2	Soft landscape proposals sheet 2 of 5	18/12/15
732.1_04G HDA SL3	Soft landscape proposals sheet 3 of 5	18/12/15
732.1_05G HDA SL4	Soft landscape proposals sheet 4 of 5	18/12/15
732.1_06G HDA SL5	Soft landscape proposals sheet 5 of 5	18/12/15
732.1_10A HDA D3	Tree protection fencing	Jul 2015
732.1_08A HDA D3	Rabbit proof fence detail	Jun 2015

The tree protection measures shall be implemented at the time of planting and maintained throughout the life of the IWMF.

Reason: In the interest of visual amenity, to ensure protection for the existing natural environment, including adjacent TPO woodland and to comply with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policies CS5 and CS8 and BDLPR policies RLP 80, RLP 81 and RLP 90.

- 60 The development hereby permitted shall be implemented in accordance with the details submitted with respect to management and watering of trees adjacent to the retaining wall surrounding the IWMF. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the statement by HDA entitled "Rivenhall

Integrated Waste Management Facility – Condition 60” dated 8 June 2015. The management and watering shall be carried out in accordance with the approved details throughout the life of the IWMF.

Reason: In the interest of visual amenity, to ensure protection for the existing natural environment, including adjacent TPO woodland and to comply with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policies CS5 and CS8 and BDLPR policies RLP 80, RLP 81 and RLP 90.

- 61 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the layout of parking area including hard and soft landscaping and lighting adjacent to Woodhouse Farm. The approved details include: the application for approval of details reserved by condition dated 4 August 2015, the Statement by Honace entitled “Condition 61 Woodhouse Farm Parking & Lighting” and the followings drawings:

Drawing ref	Title	Dated
IT569/CP/01 Rev B	Woodhouse car park layout and typical details	21/07/15
732.1_05G HDA SL4	Soft landscape proposals sheet 4 of 5	18/12/15
DW40019H001 Rev p1	Proposed lighting layout	22/07/15

The parking, lighting and landscaping shall be maintained in accordance with the details approved throughout the life of the IWMF.

Reason: To protect the setting of the Listed Buildings and in the interest of visual amenity and to comply with MLP policy DM1, WLP policies W8A and W10E, BCS policy CS9 and BDLPR policies RLP 36, RLP 65, RLP 90 and RLP 100.

- 62 The development hereby permitted shall be implemented in accordance with the details submitted with respect to traffic calming measures designed to reduce the speed of traffic using the access road in the vicinity of the River Blackwater. The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following drawings:

Drawing Ref	Title	Dated
IT569_S278_01G	Footpath crossing typical detail	12/11/15
IT569_S278_02C	Vole and otter crossing	24/07/2015
SignPlot v3.10	“Vole and otter crossing” sign	

The traffic calming measures shall be maintained throughout the life of the IWMF in accordance with the approved details.

Reason: To make appropriate provision for conserving and enhancing the natural environment within the approved development, in the interests of biodiversity and in accordance with MLP policies S10 and DM1, WLP policies W8A and W10E, BCS policy CS8 and BDLPR policy RLP 84.

63 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the lining and signing of the crossing points of the access road with Church Road and Ash Lane. . The approved details include: the application for approval of details reserved by condition dated 4 August 2015 and the following drawings:

Drawing ref	Title	Dated
IT569/S278/03 C	Proposed improvements to site access road junction with Church Road	June 2015
IT569/S278/04 C	Proposed improvements to site access road junction with Ash Lane	June 2015
SignPlot v3.10	“Heavy Plant crossing” sign	
SignPlot v3.10	“Stop” sign	
SignPlot v3.10	Priority sign	

The lining and signing shall be maintained in accordance with the approved details throughout the life of the IWMF.

Reason: In the interests of highway safety, safeguarding local amenity and to comply with MLP policies S1 and DM1, WLP policies W4C, W8A, W10E and W10G and BDLPR policies RLP 36 and RLP 49.

64 The development hereby permitted shall be implemented in accordance with the details submitted with respect to the scheme and programme of historic building recording for Woodhouse Farm and buildings (including Bakehouse & pump) approved on 16 February 2016 under condition 64 of planning permission ESS/55/14/BTE. The approved details include: application for approval of details reserved by condition dated 4 August 2015 and the following documents:

- Brief for Historic Building Recording at Woodhouse Farm, Kelvedon by Place Services.
- Written Scheme of Investigation Historic Building Recording at Woodhouse Farm ASE Project 8293
- Figure 2 Location of buildings to be recorded at Woodhouse Farm, IWMF, Rivenhall dated Feb 2015

The written scheme and programme of historic building recording shall be implemented prior to the commencement of any demolition, works or conversion of any kind taking place at Woodhouse Farm and buildings as part of this permission. Upon completion of the programme of historic building recording, the recordings shall be written up in a report and submitted for approval in writing by the Waste Planning Authority.

Reason: To ensure that any heritage interest has been adequately investigated and recorded prior to the development taking place and to

comply with MLP policies S10 and DM1, WLP policy W10E, BCS policy CS9 and BDLPR policy RLP 100 and the NPPF.

- 65 There shall be no use of the access road from the A120 to the IWMF except by traffic associated with the IWMF, Bradwell Quarry or to access agricultural land for agricultural purposes.

Reason: In the interests of highway safety, as traffic movements above those associated with the IWMF, Bradwell Quarry and existing agricultural movements would need to be considered afresh and to comply with MLP policies S1 and DM1, WLP policies W4C, W8A and W10E and BDLPR policies RLP 36 and RLP 54.

- 66 In the event that the IWMF is not brought into beneficial use within 5 years of commencement of the development (as notified under condition 1) the operator shall within 6 months of the end of the 5 year period submit a plan of action for an alternative use or a scheme of rehabilitation for the site for approval by the Waste Planning Authority. The plan of action for an alternative use or scheme of rehabilitation shall be implemented within 6 months of approval by the Waste Planning Authority.

Reason: To ensure that if the development of the IWMF is not progressed to a beneficial use within a reasonable period, that the site is either planned for an alternative use or the site rehabilitated in the interests, of minimising the adverse environment impacts of incomplete implementation and in accordance with WLP W8A, W10E and MLP DM1 and BCS policies CS5 and CS8.

- 67 No clearance works within the Woodhouse Farm complex (comprising Woodhouse Farmhouse, the Bakehouse, and the listed pump together with the adjoining land outlined in green on Plan 1 [which can be found in the S106 legal agreement dated 30 October 2009 associated with ESS/37/08/BTE]) shall be undertaken until the Waste Planning Authority has been provided with a copy of a licence issued by Natural England pursuant to Regulation 53 of the Conservation and Species Regulations 2010, giving authorisation for the works.

Reason: In the interests of protection of protected bat species and in accordance with MLP policies S10 and DM1, WLP policies W10E, BCS policy CS8 and BDLPR policy RLP 84.

- 68 Within 6 years of the date of commencement of development as notified under condition 1, Woodhouse Farm and buildings shall be refurbished to a visitor and education centre.

Reason: To ensure the timely refurbishment of the Listed Buildings and their being brought into beneficial in order to protect thee heritage assets and to comply with MLP policies S10 and DM1, WLP policy W10E, BCS policy CS9 and BDLPR policy RLP 100 and the NPPF.

- 69 Following the approval of details required by condition 19 and prior to the installation of process equipment and plant, an updated noise assessment shall be undertaken and submitted to the Waste Planning Authority for approval to demonstrate that the maximum noise levels set out in condition 38 would not be exceeded. Installation of process equipment and plant for the IWMF shall not commence until the updated noise assessment has been approved by the Waste Planning Authority.

Reason: In the interests of residential and local amenity and to comply with WLP policies W3A, W8A, W10E, W10F and BDLPR policies RLP 36, RLP 62 and RLP 90.

INFORMATIVES

- This planning permission is subject to a legal agreement
- Reference to Solid Recovered Fuel (SRF) for the purposes of this planning permission is considered to be the same as Refuse Derived Fuel (RDF)
- The material used to surface the haul road would preferably be hot rolled asphalt.

Reason for Approval

Subject to the imposition of the attached conditions, the proposal is acceptable having been assessed in the light of all material considerations, including weighting against the following policies of the development plan:

Essex & Southend Waste Local Plan (WLP) adopted 2001

W3A - Waste Strategy
W3C - Receipt of Essex wastes only
W4A - Flooding and surface water
W4B - Surface & ground water
W4C - Highways
W7A - Composting within buildings
W7C - Support for anaerobic digestion and composting
W7G - Energy from waste incineration
W8A - Preferred locations for waste management
W10E - Development control criteria
W10F - Hours of working
W10G - Safeguarding/improvements to Rights of Way

Minerals Local Plan (MLP) adopted 2014

P1 - Preferred and reserve sites for sand and gravel extraction
S1 - Presumption in favour of sustainable development/ Sustainable development locations
S10 - Protecting and enhancing the environment and local amenity

S11 - Access and transportation
S12 - Mineral site restoration and afteruse
DM1 - Development management criteria
DM2 - Planning conditions and legal agreements
DM3 - Primary processing plant

Braintree District Council Local Development Framework Core Strategy (BCS) adopted 2011

CS5 - Countryside
CS6 - Promoting accessibility for all
CS8 - Natural Environment and Biodiversity
CS9 - Built and Historic Environment

Braintree District Local Plan Review (BDLPR) 2005

RLP 36 - Industrial & Environmental Standards
RLP 54 - Transport Assessments
RLP 62 - Pollution control
RLP 63 - Air quality
RLP 64 - Contaminated land
RLP 65 - External Lighting
RLP 71 - Water supply and land drainage
RLP 72 - Water quality
RLP 80 - Landscape Features and Habitats
RLP 81 - Trees, Woodland, Grasslands and Hedgerows
RLP 84 - Protected species
RLP 86 - Rivers corridors
RLP 87 - Protected Lanes
RLP 90 - Layout and design of development
RLP 100 - Alterations, extensions and changes of use to Listed Buildings and their settings
RLP 105 - Archaeological Evaluation
RLP 106 - Archaeological Excavation and Monitoring

Statement of Reasons

The key overarching purpose of planning is to deliver sustainable development. The NPPF in particular promotes a presumption in favour of sustainable development; referred to as the 'golden thread' running through decision taking. The National Planning Policy for Waste, the BCS, the WLP and the emerging RWLP also refer to sustainability objectives.

At paragraph 6 of the Framework it is stated that "*the purpose of the planning system is to contribute to the achievement of sustainable development. There are three dimensions to sustainable development: economic, social and environmental.*" In an economic role planning should "*be contributing to building a strong, responsive economy, by ensuring that sufficient land of the right type is available in the right places and at the right time to support growth and innovation.*" In a social role planning should be "*supporting strong, vibrant and healthy communities, by providing the supply of housing required to meet the needs of present and future generations;*

and by creating high quality built environment, with accessible local services that reflect the community's needs and support is health, social and cultural well-being." In an environmental role planning should be "contributing to protecting and enhancing our natural, built and historic environment; and, as part of this, helping to improve biodiversity, use natural resources prudently, minimise waste and pollution and mitigate and adapt to climate change including moving to a low carbon economy."

While the amendments would result in a change in capacities of the IWMF it is still considered that the facility would provide an integrated approach to waste management. The MBT & MRF would ensure recyclables are recovered prior to use of the residue as a fuel source for the CHP, in accordance with the principle of pushing waste up the waste hierarchy. The on-site de-ink paper pulp plant would make direct efficient use of the heat and steam from the CHP and produce recycled paper pulp in the UK reducing the need for imported supplies. The remaining capacity of the CHP, in combination with biogas from the AD facility, would generate "green" electricity, contributing to sustainable development, reducing carbon emissions from non-fossil fuel electricity generation and contributing to reducing the impacts of climate change.

The IWMF would provide waste management capacity for C & I waste within Essex & Southend further up the waste hierarchy and thereby reducing C & I waste going to landfill. The IWMF would create capacity to utilise SRF/RDF generated in the county. Even if the IWMF was not awarded the contract for the management of SRF/RDF generated at Tovi Eco Park by the WDA the IWMF capacity to deal with SRF/RDF would ensure that Essex & Southend had capacity to deal with SRF/RDF helping to achieve net self-sufficiency for the County's waste management needs. The spare capacity in the CHP would encourage waste currently landfilled to be used as a resource from which energy could be recovered again helping to move waste management up the waste hierarchy.

No objection has been received from the Environment Agency with respect to the potential emissions from the CHP plant and Government guidance is clear that unless statutory bodies raise concerns with respect to emissions it is not the planning authorities' role to refuse the application on pollution or health grounds. These will be addressed through the Environmental Permit and the planning authority should assume these control mechanisms would work effectively.

The concern that the application should have been a new full application was considered by the WPA and it was concluded that the way the conditions were imposed in the 2010 planning permission reflected the Inspector's intention to allow flexibility in the implementation of the consent and that the application could be considered by way of a variation to the original consent.

The application was supported by an Environmental Statement. No significant adverse effects have been identified arising from the proposed changes which were not already addressed by mitigation or secured by condition. As a result of the amendments, there would be no additional impacts with respect to traffic, landscape, visual impact, impacts on the Historic environment, archaeology, ecology or impacts of residential amenity, which are not already mitigated by the proposals and/or controlled by existing or proposed conditions or obligations of the legal agreement.

While the facility would utilise more water from an existing permitted abstraction licence, there is storage capacity within the site to utilise this abstraction and ensure adequate water supply even in dry periods, without adverse impact. Therefore the proposals are in accordance with WLP policies W8A, W4A, W4B, W4C, W10E and BDLP policies RLP 36, 54, 62, 63, 64, 65, 71, 72, 80, 81, 84, 86, 87, 90, 100, 105 and 106.

The Inspector in considering the original application stated

The eRCF is consistent with the key planning objectives set out in PPS10 [now superseded and embodied within the NPPW]. It would help to deliver sustainable development by driving waste management up the waste hierarchy and addressing waste as a resource. It would reduce the need for disposal by landfill and would recycle waste into marketable products. Moreover, it would have benefits in terms of climate change. It would also contribute towards ensuring the timely provision of sufficient waste management facilities to meet the needs of the community and assist in the implementation of ECC's strategy to provide a framework within which the community takes more responsibility for its own waste. The eRCF would contribute to the implementation of the national waste strategy.

It is not considered that the proposed changes would undermine these original conclusions. The proposal is sustainable development, in that it meets the needs of Essex & Southend; contributes to the sustainable management of waste; provides recycling capacity for C & I waste; provides reprocessing capacity for recovered paper efficiently using on site heat and power; provides a source of energy offsetting fossil fuels and reducing greenhouse gases from alternative forms of energy, better waste management, in particular by providing capacity to divert C & I waste from landfill; and is in accordance with the principles of the waste hierarchy set out in the National Planning Policy for Waste.

The development is therefore considered to represent sustainable development for the purposes of the NPPF and is considered to comply with the relevant policies of the development plan taken as a whole.

There are no other policies or other material considerations which are overriding or warrant the withholding of permission.

THE CONSERVATION OF HABITATS AND SPECIES REGULATIONS 2010 (as amended)

The proposed development would not be located adjacent to a European site. Therefore, it is considered that an Appropriate Assessment under Regulation 61 of The Conservation of Habitats and Species Regulations 2010 is not required.

STATEMENT OF HOW THE LOCAL AUTHORITY HAS WORKED WITH THE APPLICANT IN A POSITIVE AND PROACTIVE MANNER

The Waste Planning Authority has engaged with the applicant prior to submission of the application, advising on the validation requirements and likely issues.

Throughout the determination of the application, the applicant has been kept informed of comments made on the application and general progress. Additionally, the applicant has been given the opportunity to address any issues with the aim of providing a timely decision.

Dated: 26 February 2016

COUNTY HALL
CHELMSFORD



Andrew Cook - Director for Operations, Environment and Economy

IMPORTANT - ATTENTION IS DRAWN TO THE NOTES ON THE NEXT PAGE

NOTES

TOWN AND COUNTRY PLANNING ACT 1990

NOTIFICATION TO BE SENT TO AN APPLICANT WHEN A LOCAL PLANNING AUTHORITY REFUSE PLANNING PERMISSION OR GRANT IT SUBJECT TO CONDITIONS

Appeals to the Secretary of State

- If you are aggrieved by the decision of your local planning authority to refuse permission for the proposed development or to grant it subject to conditions, then you can appeal to the Secretary of State under section 78 of the Town and Country Planning Act 1990.
- If you want to appeal against your local planning authority's decision then you must do so within 6 months of the date of this notice.
- If this is a decision that relates to the same or substantially the same land and development as is already the subject of an enforcement notice, if you want to appeal against your local planning authority's decision on your application, then you must do so within 28 days of the date of this notice.
- Alternatively, if an enforcement notice is served relating to the same or substantially the same land and development as in your application and if you want to appeal against your local planning authority's decision on your application, then you must do so within 28 days of the date of service of the enforcement notice, or within 6 months of the date of this notice, whichever period expires earlier.
- Appeals must be made using a form which you can get from the Secretary of State at Temple Quay House, 2 The Square, Temple Quay, Bristol BS1 6PN (Tel: 0303 444 5000) or online at www.planningportal.gov.uk/pcs
- The Secretary of State can allow a longer period for giving notice of an appeal but will not normally be prepared to use this power unless there are special circumstances which excuse the delay in giving notice of appeal.
- The Secretary of State need not consider an appeal if it seems to the Secretary of State that the local planning authority could not have granted planning permission for the proposed development or could not have granted it without the conditions they imposed, having regard to the statutory requirements, to the provisions of any development order and to any directions given under a development order.

**Appendix 5 - Skills and Employment Principles for Major Project
and Developments' document**

ECC Skills and Employment Principles for Major Projects and Developments

Skills Strategy and Growth Team

Introduction

ECC would like to see the county's major projects and developments make a significant contribution to support our Essex skills and employment landscape. This document is a summary of our vision and ambition.

The Skills and Employability Team aims to develop a strong and flexible skills system that addresses issues related to low productivity, business development and economic inclusion and we encourage early engagement from the Major Project sponsor or developer to outline how they intend to align their work to support our priorities. Our priorities are identified in our Essex Skills Plan, our Sector Development Strategy, as well as in Everyone's Essex, our strategy for Levelling Up the County.

Scale of economic opportunity

National Strategic Infrastructure Projects and other large-scale developments have the potential to generate lasting regional economic growth and prosperity. Our focus is to drive strong strategic leadership and partnerships which promote the development of a highly-skilled local workforce and sustainable employment. A responsive and flexible local skills system will help mitigate dependencies on single large local employers which can, potentially, drive out other opportunities or make communities vulnerable to economic shocks.

Economic clustering and skills

Our strategic aim is to ensure that major projects work to bring about skills clusters that support the matching of workers to in-demand career opportunities, and companies to communities where the skills they need exist or are being trained for.

We therefore expect major projects to:

- cultivate and foster partnerships to develop a flexible and responsive skills system that aids regional and sub-regional business development, and which develops industry clusters and skills engines.
- develop highly-skilled sub-regional talent eco-systems with transferable skills and competence, responsive to current and future jobs which:
 - builds capacity and conditions to enable shared prosperity
 - enables innovation, knowledge-driven and digital skills that increase productivity, and thereby aiding wealth, output and opportunity
- mitigate adverse employment effects that may arise from a large-scale influx of non-home-based workers which evidence suggests increases salaries and job competition, thereby leading to higher churn and displacement effects. This crowding out effect raises the cost for all local people, including those not directly employed by the large employers, by increasing demand for property and local services.
- create the conditions for effective skills devolution by developing and taking forward an integrated whole-system approach to employability and skills.

Skills and Employment principles for major projects



To meet our principles, the sponsor / developer will be expected to:

1. Link educators, business and people to develop a shared understanding of skills and drive local prosperity

Working in partnership with ECC, SELEP, SEB, employer/business reps and training providers:

- Drive strong leadership to enable local anchor institutions/strategic infrastructure projects to invest in and deliver local outreach and engagement to support sub-regional, latent talent pools; enabling future employment and agglomeration spin-out
- Ensure local educational provision aligns with sub-regional employment needs
- Develop and take forward integrated approaches to employability and skills with other agencies.
- Foster educational partnerships to upskill and train highly-skilled workers

2. Cultivate skills needed for the future economy supporting productivity, future prosperity and the fourth industrial revolution

Working in partnership with ECC, SELEP, SEB, JCP, training providers and others:

- Invest in lifelong learning, to adapt to changing employment landscapes
- Develop and unlock skills needed for future jobs
- Prioritise knowledge-driven skillsets and higher-level jobs

3. Develop and enhance sustainable high-value employment opportunities

Working in partnership with ECC, SELEP, SEB, JCP, training providers and others:

- Support access to a highly skilled pool of local labour
- Drive knowledge economy jobs

- Increase the percentage of residents with skills at Level 3 and above
- Further utilise the apprenticeship levy and opportunities for skills devolution to support industry and develop highly-skilled sub-regional talent eco-systems
- Maximise local labour opportunities from regional developments, with career sustainability and lifelong learning at its foundation

4. Develop world class training and provision

Working in partnership with ECC, SELEP, district(s) and training providers:

- Invest in and support the local educational landscape
- Develop a culture of education and industry knowledge share and pool of associate lecturers, teachers\tutors and assessors
- Invest in new models of skills facilities and equipment which are aligned to employer skills need to support 'skills for the future' and a knowledge-based economy
- Invest in and develop new vocational pathways such as apprenticeships, T-Levels and new models of Work Based Learning

5. Ensure a diverse and inclusive workforce

Working in partnership with ECC, SELEP, SEB, district(s) and training providers:

- Offer targeted opportunities for the hard to reach and those furthest away from the job market to access sustainable employment
- Address workforce gender imbalances and promote a culture of fairness, inclusion and respect for all, through vigorous outreach, local engagement and pro-active measures to break down negative perceptions
- Create localised initiatives addressing the skills needs of specific subregions of Essex, such as addressing: in work poverty, low skills levels, long term unemployment or high levels of individuals Not in Education, Employment or Training (NEET)
- Invest in and work with specific cohorts of residents that are furthest away from the jobs market to promote employability and skills development

HoT for Skills and Employment Plans

We encourage and expect all projects and developments to use a Skills and Employment Plan to set out their strategy for supporting and delivering any S106 and non-S106 skills and employment obligations. We encourage developers to use best practice guidance and templates provided by CITB which, as a minimum refer to commitments, clear plans and targets as below:

1. Working within the existing skills and employment partnership(s) as advised by ECC and maximising the number of local skills and job opportunities on offer
2. Recruiting through Jobcentre Plus and other local employment vehicles
3. Advertising jobs via the Essex Opportunities portal or any other portal as advised by ECC
4. Setting targets and monitoring systems for-
 - a. New jobs created
 - b. Work trials and interview guarantees
 - c. Pre-employment training
 - d. Apprenticeships and traineeships
 - e. Vocational training (NVQ)
 - f. Work experience (14-16 years, 16-19 years and 19+ years) and engagement with T Levels
 - g. School, college and university site visits and career events
 - h. Construction Skills Certification Scheme (CSCS) cards
 - i. Supervisor training
 - j. Leadership and management training
 - k. Support with transport, childcare and work equipment
 - l. In-house training schemes