

LINCOLNSHIRE WASTE PARTNERSHIP

**A MEETING OF THE LINCOLNSHIRE WASTE PARTNERSHIP
WILL BE HELD ON MONDAY, 13 APRIL 2015 AT 10.00 AM
IN COMMITTEE ROOM ONE, COUNTY OFFICES, NEWLAND, LINCOLN
LN1 1YL**

AGENDA

LEAD

- 1 PARTNERSHIP MANAGEMENT ISSUES**
- 1.1 **Election of Chairman**
- 1.2 **Election of Vice-Chairman**
- 1.3 **Apologies for Absence**
- 1.4 **Declarations of Interest**
- 1.5 **Minutes of the meeting held on 14 July 2014** (Pages 3 - 12)
- 1.6 **Proposed Schedule of Meeting Dates 2015/16**
(To approve the proposed schedule of meeting dates for the Lincolnshire Waste Partnership in 2015/16) (Pages 13 - 14)
- 1.7 **Partner Updates**
(To provide Members of the Lincolnshire Waste Partnership with an opportunity to update the rest of the Partnership on any developments within their areas which may affect or be of interest to the Partnership as a whole)
(Verbal Report)
- 2 STRATEGIC ISSUES**
- 2.1 **District Heating**
(To receive a report which provides the Lincolnshire Waste Partnership with an update in relation to District Heating)
(Pages 15 - 28)
- 2.2 **Joint Municipal Waste Management Strategy (JMWMS)**
(To receive a report which outlines the need to start the process to refresh the Joint Municipal Waste Management Strategy) (Pages 29 - 114)
- 2.3 **Mixed Dry Recycling Contract**

(To receive a presentation on the Countywide Mixed Dry Recycling Contract) (Pages 115 - 126)

3 OPERATIONAL ISSUES

3.1 Incinerator Bottom Ash as Recycling

(To receive a report which sets out the position in relation to incinerator bottom ash being included within recycling performance) (Pages 127 - 128)

3.2 Energy from Waste Update

(To receive report which provides the Partnership with an update on the performance of the Energy from Waste plant) (Pages 129 - 130)

3.3 TEEP Update

(To receive a report which provides an update on the Lincolnshire approach to TEEP compliance) (Pages 131 - 132)

3.4 National Framework Home Compost Bin Scheme 2014/15

(To receive a report which outlines the National Framework Compost Bin Scheme for 2015/16) (Pages 133 - 136)

1 April 2015

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**LINCOLNSHIRE WASTE
PARTNERSHIP
14 JULY 2014**

**PRESENT: COUNCILLOR J SMITH (SOUTH KESTEVEN DISTRICT COUNCIL)
(CHAIRMAN)**

Sean Kent	(Lincolnshire County Council)
George Bernard	(Boston Borough Council)
Councillor Fay Smith	(City of Lincoln Council)
Councillor Richard Wright	(North Kesteven District Council)
Mark Taylor	(North Kesteven District Council)
Councillor R A Shore (Vice-Chairman)	(Lincolnshire County Council)
Councillor M Brookes	(Boston Borough Council)
Councillor A H Turner MBE JP	(Lincolnshire County Council)
Ian Taylor	(Lincolnshire County Council)
Councillor Mrs Bardsley	(West Lindsey District Council)
Ady Selby	(West Lindsey District Council)
Ian Yates	(South Kesteven District Council)
Councillor A Casson	(South Holland District Council)
Emily Spicer	(South Holland District Council)
Ian Fytche	(North Kesteven District Council)

The Chairman welcomed the members of the Partnership to Sleaford and thanked North Kesteven District Council for allowing the meeting to be held at their offices.

48 PARTNERSHIP MANAGEMENT ISSUES

(a) Apologies for Absence

Apologies for absence were received from Councillor S O'Dare and Mark Humphreys (East Lindsey District Council); Councillor R Gambba-Jones (South Holland District Council); Councillor Mrs I Parrott (West Lindsey District Council) and Simon Mitchell (Environment Agency)

It was noted that Councillor A Casson was in attendance on behalf of Councillor R Gambba-Jones and Councillor Mrs Bardsley was in attendance on behalf of Councillor Mrs I Parrott.

(b) Minutes of the meeting held on 17 October 2013

RESOLVED

That the minutes of the meeting held on 17 October 2013 be signed by the Chairman as a correct record subject to it being noted that Emily Spicer (South

Holland District Council) and Ady Selby (West Lindsey District Council) were in attendance at the meeting.

In relation to minute number 43, it was noted that there was no further update available at this time.

It was queried whether there was any update to minute number 42, in relation to district heating schemes. It was reported that discussions had been taking place with companies around the Teal Park area. However, they were still at a commercially sensitive stage, but a paper would be brought to the Partnership at a later date, once details had been firmed up.

It was clarified that at the time that Siemens had moved to Teal Park, the heat energy provided by the energy from waste facility had not been available, and also Siemens did not have the capacity required to make use of the heat, as it would need to be used continuously. It was confirmed that the connections were in place for a district heating scheme.

It was commented that it was the intention of the County Council to ensure that the heat produced was used.

49 STRATEGIC ISSUES

(a) Dry Recycling Contract

The Partnership welcomed Ian Fytche, Chief Executive of North Kesteven District Council to the meeting, who presented a report in relation to a dry recyclables contract which would cover all Waste Collection Authorities (WCA's).

It was reported that three WCA's made their own arrangements for the recycling of dry recyclable materials, and received recycling credits payments from the County Council. The material from the four remaining WCA's was handled through contracts arranged by the County Council as the Waste Disposal Authority (WDA), these WCA's did not receive recycling credit payments. The County Council contracts were due to come to an end in March 2015, and following discussions between all member authorities of the LWP it was intended that new arrangements should be put in place to include the dry recyclable material from all 8 WCA's. It would therefore be necessary to undertake a tendering exercise in order to ensure that arrangements were in place from 1 April 2015 onwards.

The Partnership was advised that there was a defined timeline for the procurement process in order to ensure that a contract would be in place from 1 April 2015. The Waste Officers had been working together to ensure that the specification for the tenders satisfied all of the partners. It was noted that authorities in Lincolnshire had been very successful in terms of recycling performance and minimising the amount of waste which was collected.

Members of the Partnership were provided with the opportunity to ask questions to the officers present in relation to the information contained within the report, and some of the points raised during discussion included the following:

- Members were advised that there were still detailed issues around incentivisation to be resolved before an agreement was reached;
- The principles of how the recycling contract would be dealt with was something the officers had spent a lot of time discussing. However, the main issue would be how the transition to the new arrangements took place;
- How risk was shared between the authorities would be an important area;
- It was commented that there were some big savings which could be made due to the Energy from Waste plant, and districts were keen to ensure that they received their share of the income. All authorities would be facing further financial restraints and difficulties in the coming years;
- The end result of the contract had to be a better service for residents of Lincolnshire;
- There was optimism that a solution would be found by 1 April 2015, but it would be essential that all eight partners worked together to find a solution;
- It was noted that most members of the Partnership had not been involved in the discussions around this contract, as most of the discussions were taking place at Leader and Chief Executive level;
- The new contract could have a big effect on those authorities who would no longer receive recycling credits, and it was hoped that having the right incentives in the agreement would help to find a way forward;
- There was some caution around the table, and it was noted that the consensus was that there was a need for the best solution for the tax payer. It was thought that the strong commitment to this principle would be of benefit when discussing the financial arrangements;

The Partnership was informed that this contract still needed further consideration and it was possible that a special meeting of the Lincolnshire Waste Partnership would need to be held. It was hoped that by the time the Partnership met again there would be some further details to consider. It was commented that this could be an opportunity for the Partnership to become much stronger and work as a more strategic body.

RESOLVED

That the update provided and comments made be noted.

50 OPERATIONAL ISSUES

(a) Making Sense of the Waste Regulations 2011 (12 and 13)

The Partnership received a report and presentation from Ian Taylor (Lincolnshire County Council) and Emily Spicer (South Holland District Council) in relation to the Waste (England and Wales) Regulations 2011 which transposed the Waste Framework Directive into English law and imposed duties on waste collection authorities and waste

disposal authorities to follow the waste hierarchy in relation to the collection of waste and the handling of collected waste.

Regulation 13 had previously stated that comingled collection of waste paper, metal, plastic or glass (being separate from residual waste) could be regarded as separate collection, however, it was amended to read:

From 1 January 2015 recyclable items would need to be collected separately, provided this was 'technically, environmentally and economically practicable'.

The Partnership received a presentation which provided more details in relation to this, and covered the following areas:

- Background
- Commission Guidance
- European Commission Guidance
- What does TEEP mean?
- Transposition and Challenge
- English Guidance
- Route Map
- What does it help us to do?
- When do Local Authorities need to act?
- Route Map Overview
- High Quality Recycling
- Why is quality important?
- Practicability (TEEP) Test Breakdown
- Practicability (TEEP) Test
- Conclusions

It was reported that the waste officers group had looked at these regulations as part of the work on the dry recyclables contract. It was expected that the contractors would support local authorities achieving TEEP, and discussions had taken place with MRF operators for the countywide recycle contract that clarified that this would be a contractual requirement. All the MRF operators confirmed they would support Local Authorities in their efforts to achieve and maintain compliance with TEEP. The Environment Agency would be the enforcing authority.

Members of the Partnership were provided with the opportunity to ask questions to the officers present in relation to the information contained within the report and presentation, and some of the points raised included the following:

- It was likely that questions regarding quality would be raised, considering the levels of contamination experienced;
- Most things that were thrown away were recyclable, but it depended on how they were processed whether they could be collected as part of the recycling;
- Quality recycling referred to material which could be re-used for its original use e.g. glass bottles being recycled and processed back into glass bottles;
- It was not just about what materials could be recycled, but what materials operators were willing to accept;

- The current performance targets which were in place for recycling were put in place to drive volume, and certain high value recyclables were collected. It was noted that if a material could not be recycled then it could still be recovered;
- Concerns were raised that if not as many recyclables were collected as the focus was on quality, would there be more residual waste, and therefore more cost?
- It was suggested that it could be advantageous to make more money out of the recyclable materials which had a high value. Anything which could not be recycled would go to the Energy from Waste plant;
- Carrier bags could be a problem, as some operators accepted them as part of the waste stream and others did not;
- It was thought that the issue of TEEP was something the Partnership would need to coming back to;

RESOLVED

That the comments made in relation to the report and presentation be noted.

(b) Energy from Waste - Progress Update

The Lincolnshire Waste Partnership received a report which provided an update from the Head of Environmental Management (LCC) in relation to the Energy from Waste facility. Members were advised that everything was working as it should and ownership had been handed over to the County Council, and it was being operated by FCC. The plant was also now generating electricity.

It was reported that the plant was working very well, and it was suggested that in future an annual report be brought to the Partnership which set out any issues raised and how they were resolved.

Members were invited to ask questions in relation to the update provided and some of the issues raised during discussion included the following:

- In relation to the quantities of waste which could go through the EfW plant, it was reported that the county council had a minimum requirement of 120,000 tonnes for household waste, and 30,000 tonnes for commercial waste, as the contract was for 150,000 tonnes. However, the full 150,000 tonnes was being used for residual waste. It was noted that the County Council was hoping to negotiate an additional contract for take additional tonnage of C and I waste. The facility was burning 150,000tonnes (approximately 19 tonnes per hour), and it was hoped this could be increase to 165,000tonnes, through operational testing over the coming year;
- The first priority for the facility was the 150,000 tonnes per year that the county council was contracted to supply, and there were no commercial contracts set up at this time. It was not permitted for more than the 150,000 tonnes to be supplied, if the facility was to accept more, then the authority would need to reapply for planning permission;
- Each waste transfer station could hold 2-3 days of collected waste, and the bunker at the EfW facility could hold around 11 days waste. A landfill within the county was expected to be opened for the life of the contract

- The waste delivered to the EfW facility was not sorted when it arrived, so there was a chance that something could get through which could disrupt the running of the facility. However, several measures were in place to ensure this didn't happen including regular mixing of the loads as they were delivered, and the bunker was constantly videoed as well as being monitored. Therefore the chances of something going through which could cause damage were considered to be low;
- If the volume of waste burned could be increased from 19 tonnes per hour then the County Council would reapply for planning permission to increase the tonnage which could be presented to the facility. The authority would be working with FCC in relation to this consideration with regards to the future housing growth within the county;
- There had been many enquiries received regarding visiting the facility from groups and schools. However, it was hoped to get the plant officially opened before the visits were arranged. FCC had appointed a centre visitor manager, and a training suite had been included in the facility for this purpose. There was currently a long list of groups interested in visiting and it was hoped that these would be arranged towards the end of the year. It was also suggested that a future meeting of the LWP could be held at the facility, with an appropriate site visit;
- It was noted that members of the Partnership would be invited to the official opening of the facility.

RESOLVED

That the update be noted.

(c) National Framework Home Compost Bin Scheme 2014/15

The Partnership received a report which outlined the national framework home compost bin scheme 2014/15. This was a scheme whereby residents could purchase home compost bins directly from the manufacturer but at a reduced price achieved by supply on a national framework scheme. This scheme was supported by all authorities within the Lincolnshire Waste Partnership and actively promoted it through their websites.

Members were advised that as the current home compost bin scheme with Straight plc was due to end on 31 March 2014, the Officer Working Group had taken the decision to continue the contract for a further two years. It was also noted that in previous years, authorities had had to purchase promotional leaflets, but from April 2014 each campaign would be eligible for a free promotional pack that included 10,000 generic leaflets and 10 posters. No costs would be incurred by any of the authorities.

RESOLVED

That the Lincolnshire Waste Partnership endorse the decision of the Waste Officer Group to continue with the National Framework Compost Bin Scheme during 2014/15.

(d) Contamination in Dry Recyclables

The Partnership received a verbal update from the Head of Environmental Management (LCC) in relation to contamination in dry recyclables, particularly carrier bags. It was reported that there had been an article in the last edition of County News about contamination which had raised concerns from districts, as some provide plastic bags for recyclables. It was clarified that the article related to supermarket carrier bags which were being put into the recycling. The County Council apologised to the districts for any confusion caused.

This kind of contamination in the recycling cost all authorities a lot of money, but it was hoped that the introduction of a charge for carrier bags in 2015 would help to reduce this issue. The Partnership needed to continue to work together to address this issue.

It was reported that South Holland District Council had received a number of complaints regarding the article, and it was suggested that another article be put in the next issue of County News to clarify what was stated originally, in that it was supermarket carrier bags which should not be put into the recycling. It was commented that food was also a common contaminant in recycling, and it was suggested whether a county wide article was needed to highlight this issue as well?

RESOLVED

That the update be noted and the Head of Environmental Management draft a further article in relation to the issue of plastic bags in recycling and circulate to the districts and officer working group for approval prior to publication.

(e) Partner Updates

Members of the Partnership were provided with the opportunity to update the rest of the Partners on any developments within their individual districts which may be of interest, and the following was reported:

South Kesteven District Council – the amount of waste which was recycled was now 53%, which was an increase on the previous year. It was acknowledged that this was due in part to the green waste collection. Contamination was an issue and the authority was investing in education and marketing campaigns to address this. Door to door campaigns would be used in targeted areas where people did not want to recycle. Officers were also working hard with land lords.

It was reported that fly tipping was still a problem, with 289 fly tips in the first quarter, officers had tried to remove the waste as quickly as possible, but it was all removed within three days of being reported. The authority had had some success prosecuting serial fly tippers. It was reported that there was still more work to be done in relation to the areas where the fly tips took place, but it was not thought that there was a direct correlation between the opening hours of household waste recycling centres and the fly tipping.

South Kesteven District Council had also started a dedicated recycling campaign with the Grantham Journal.

Boston Borough Council – the shared collection rounds with East Lindsey District Council had been very successful and a considerable amount of money had been saved. The arrangement was working well for both authorities.

A partnership was also in place with SHDC and North Sea Camp for the collection of fly tipping.

City of Lincoln Council – green waste collections for households were renewable from 1 July 2014, and a lot of work had been put into making the process run more smoothly. Work had started 6 months previously and there had been a very detailed plan on how to approach customers with a reminder. Therefore there had not been a need to take on additional staff or for existing staff to work overtime. This had also led to a saving on the overall costs of renewals. Only one complaint had been received this year in relation to charging for green waste.

It was reported that an increase in fly tipping had been noticed in recent months, and detailed data was being collected in relation to this such as location, size etc. and a fly tip task force was being developed to respond to this issue.

It was reported that a lot of complaints had been received regarding people leaving bins on the street for excessive amounts of time, and enforcement would be brought in under Section 46. There had been a couple of test cases, and the City Council was in the process of taking someone to court. Officers would report back on the outcome at the next meeting.

South Holland District Council – a green bag lottery had been launched as an incentive to improve recycling, and so far 90 people had been awarded £100 for their good efforts in recycling. 1 person had won £1000. The tonnage of recycling collected had increased by 12%.

It was reported that the authority had received some external funding from WRAP to trial the collection of textiles alongside co-mingled recycling. This had been extremely successful using kerbside collections, and the authority was working with the Salvation Army on this.

A survey had just been released to all households, asking if they would like a green waste collection scheme, and how it would work, as well as whether people would be willing to pay for this service.

A survey was being carried out at HWRC's on behalf of the County Council to determine how far people were travelling to reach the centre.

West Lindsey District Council – recycling was currently at 60% in the district, but it was acknowledged that this was partly due to the green waste collection, which was currently free. The authority was continuing to invest in promotional material for recycling services, and was continuing to prosecute people for fly tipping. Recently, a resident had

been fined £700 for dropping a cigarette (it was noted that most of this fine had resulted from the person not paying the initial on the spot fine).

North Kesteven District Council – the focus of prosecutions had been for fly tipping offences, and the authority had had 11 successful prosecutions in 2013. The garden waste charging scheme was now in its second year, and an additional 1200 people had now signed up. NKDC was also still struggling with the issue of contamination in recycling and the Overview and Scrutiny Management Committee had set up a task and group to look at this issue. Officers were always keen to find a new approach.

Lincolnshire County Council – work on the review of the HWRC's had started, as the authority had its own TEEP considerations. Some of the recycling was now very expensive to process, and in some cases would be better and cheaper for some materials to go through the EfW as residual waste. Planning permission had been granted for the HWRC site at Gainsborough, and the Sleaford site was now open and operating, the vast majority of people using the site were complimentary.

The meeting closed at 3.50 pm

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Agenda Item 1.6



LINCOLNSHIRE WASTE PARTNERSHIP

13 APRIL 2015

SUBJECT :	PROPOSED SCHEDULE OF MEETING DATES
REPORT BY:	SEAN KENT GROUP MANAGER – ENVIRONMENTAL SERVICES LINCOLNSHIRE COUNTY COUNCIL
CONTACT NO:	01522 554833

BACKGROUND INFORMATION

This report seeks to agree meetings dates for the Lincolnshire Waste Partnership, Member/Officer Pre-Meeting and the Officer Working Group for 2015/16.

DISCUSSIONS

In accordance with the governance arrangements for the Lincolnshire Waste Partnership, the table below sets out proposed meeting dates and start times for the Lincolnshire Waste Partnership, Member/Officer Pre-Meeting and the Officer Working Group.

Officer Working Group (1.00 pm start)	Member/officer pre-meeting (3.00 pm start)	Lincolnshire Waste Partnership (10.30 start)	Officer Working Group (1.00 pm start)
5 February 2015	3 March 2015	13 April 2015	2 April 2015
30 April 2015	18 May 2015	4 June 2015	25 June 2015
7 August 2015	18 August 2015	10 September 2015	1 October 2015
22 October 2015	4 November 2015	19 November 2015	17 December 2015
14 January 2016	26 January 2016	11 February 2016	10 March 2016
7 April 2016	20 April 2016	5 May 2016	2 June 2016
4 August 2016	16 August 2016	1 September 2016	29 September 2016
27 October 2016	8 November 2016	24 November 2016	22 December 2016

RECOMMENDATION

That the meeting dates as set out above be agreed or amended accordingly.

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LINCOLNSHIRE WASTE PARTNERSHIP

13 APRIL 2015

SUBJECT : DISTRICT HEATING

REPORT BY: SEAN KENT

CONTACT NO: 01522 554833

BACKGROUND INFORMATION

Lincolnshire County Council, supported by the City of Lincoln Council and North Kesteven District Council, applied for and was successful in obtaining grant funding from the Heat Network Development Unit (HNDU). The HNDU is a team set up by the Department of Energy and Climate Change to provide support to local authorities who wish to establish or expand district heating networks.

GRANT AWARDED

The grant awarded to LCC totals £80,400 and is aimed at kick starting district heating projects through a number of development stages. LCC has obtained support for:

- Stage 1 (Area Wide Heat Mapping)
- Stage 2 (Energy Masterplanning)
- Stage 3 (Feasibility Studies)

The grant monies will cover 67% of the costs of external advisors. The remaining 33%, among other project costs, will be funded by LCC. A draft ITT has been developed to procure the external advisor for stages 1 and 2. Another procurement exercise will be undertaken for stage 3, the scope of which will depend on the results from the first 2 stages.

Appendix 1 contains the Project Area which sets the bounds for study in stage 1 (Area Heat Wide Mapping).

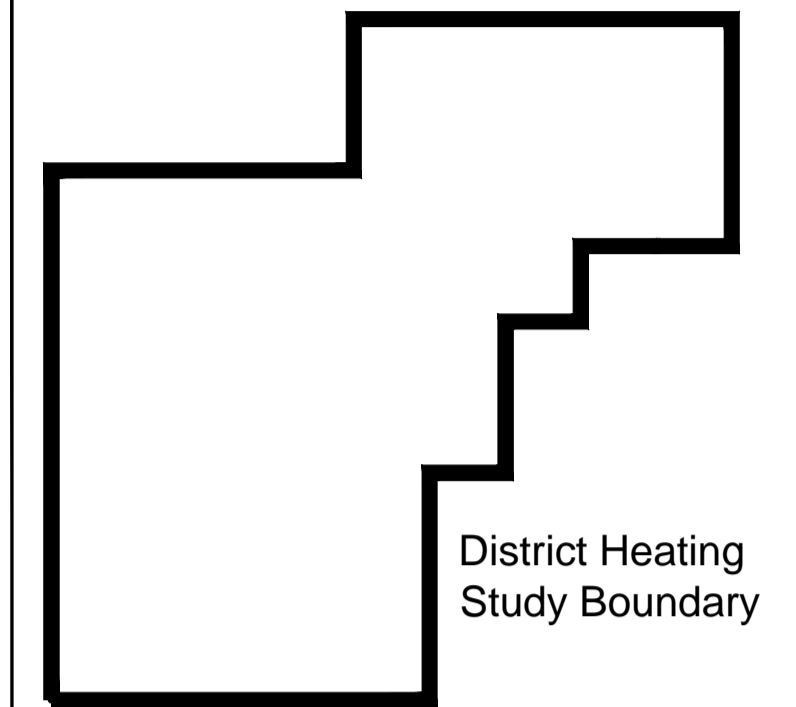
Appendix 2 contains the draft programme to deliver stages 1, 2 and 3 (a firm programme cannot yet be created until an HNDU oversight exercise is completed).


Appendix 3 contains more details on what each of the stages covers.

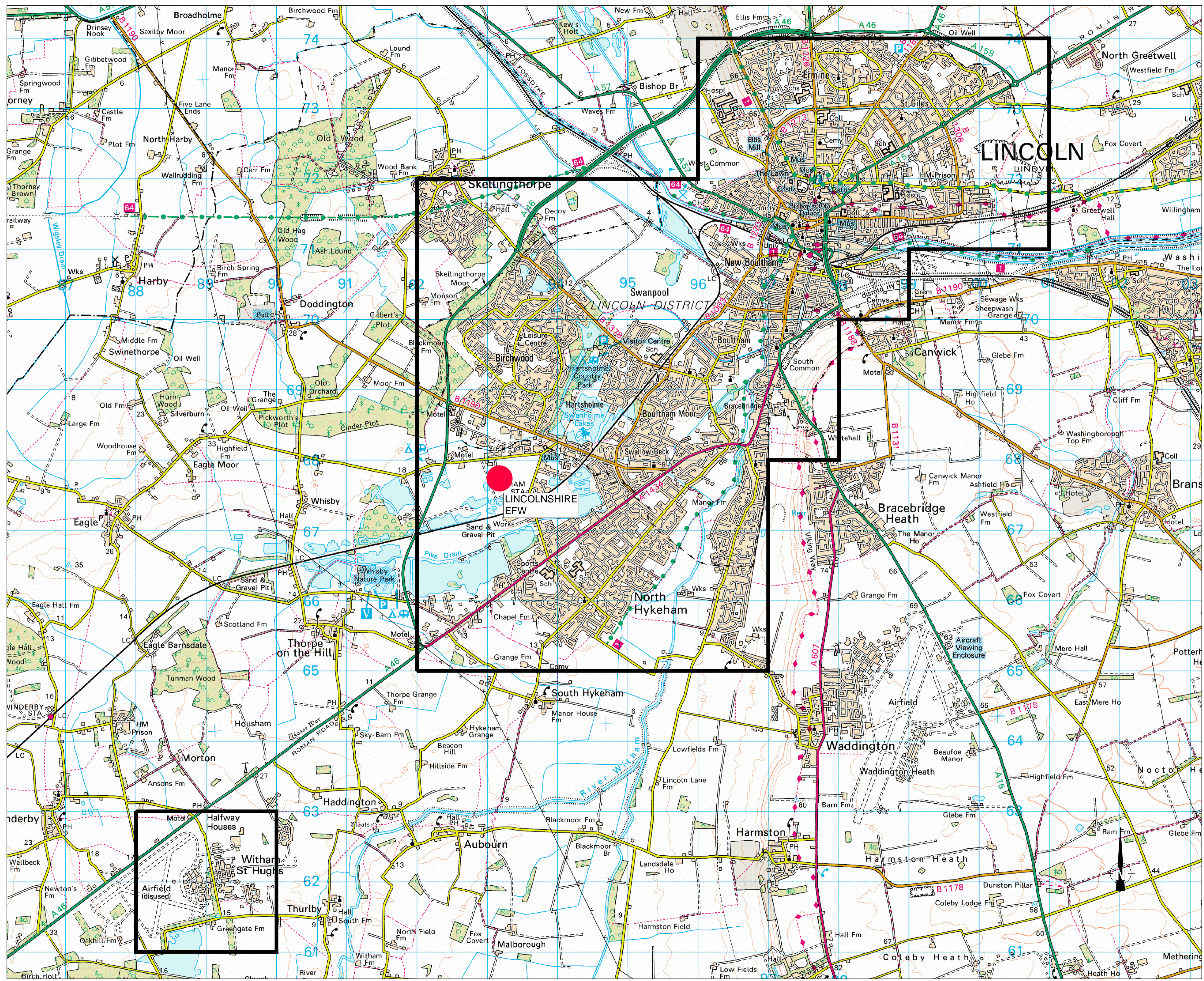
Appendix 4 contains the Terms of Reference for the governance structure


RECOMMENDATIONS

The Lincolnshire Waste Partnership is recommended to note the contents of this report and the effective working relationship between the three Authorities.



 Lincolnshire Energy From Waste Facility



Drawing Status:		PRELIMINARY	
Revision:		Drawn: Approved: Approved:	
Amendment Details		By: By: By: Date	
Drawn by: CWG	Date: 12/11/2014	1st Approval by: MAR	Date: 14/11/2014
Client: Environmental Services			
Description: Greater Lincoln District Heat Network HEAT MAPPING STUDY AREA			
Drawing Number: B/JCWS0028 /5001		Revision Number:	
Scale: (@A1)	Primary: 1:25,000	(Do not scale from this drawing)	
<small>ENVIRONMENTAL SERVICES COMMUNITIES DIRECTORATE WITHAM PARK HOUSE WATERSIDE SOUTH LINCOLN LN5 7JN Customer Service Centre: (01522) 782070</small>			
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Appendix 2 – Draft Programme (Greater Lincoln District Heating Network)

Task Name	Duration	Start	Finish	% Complete
Greater Lincoln District Heating Network	594 days	Fri 21/11/14	Wed 06/07/16	6%
HNDU Grant Application	120 days	Fri 21/11/14	Fri 20/03/15	89%
Project Board review and approval of HNDU funding bid	6 days	Fri 21/11/14	Wed 26/11/14	100%
Finalise and submit HNDU grant application	2 days	Wed 26/11/14	Thu 27/11/14	100%
Draft External Advisor I.T.T	19 days	Mon 01/12/14	Fri 19/12/14	100%
HNDU Grant Funding award announcement	0 days	Mon 09/03/15	Mon 09/03/15	100%
HNDU grant conditions satisfied (MOU etc.)	4 days	Mon 09/03/15	Thu 12/03/15	100%
Grant claim process paperwork	4 days	Tue 17/03/15	Fri 20/03/15	0%
External Advisor Procurement (Stages 1&2)	123 days	Thu 19/03/15	Sun 19/07/15	0%
Forward draft ITT (Stage 1&2) to HNDU	0 days	Thu 19/03/15	Thu 19/03/15	0%
HNDU ITT (Stages 1&2) Review Period	32 days	Fri 20/03/15	Mon 20/04/15	0%
Project Board Approve ITT (for Stages 1 & 2)	7 days	Tue 21/04/15	Mon 27/04/15	0%
Issue ITT and Tender Period	29 days	Tue 28/04/15	Tue 26/05/15	0%
Tender Return Date	0 days	Tue 26/05/15	Tue 26/05/15	0%
Tender Evaluation	21 days	Wed 27/05/15	Tue 16/06/15	0%
Announce Preferred Supplier and optional 10 day Alcatel Period	12 days	Wed 17/06/15	Sun 28/06/15	0%
Award Contract (Commencement Date) and Lead in Period	21 days	Mon 29/06/15	Sun 19/07/15	0%
Stage 1 (Area Heat Wide Mapping)	54 days	Mon 20/07/15	Fri 11/09/15	0%
Stage 1 - Area heat wide mapping undertaken by Supplier	33 days	Mon 20/07/15	Fri 21/08/15	0%
Stage 1- Draft deliverables provided to Customer	0 days	Mon 24/08/15	Mon 24/08/15	0%
Customer review period of stage 1 draft deliverables	11 days	Tue 25/08/15	Fri 04/09/15	0%
Project Board Meeting (HNDU Attendance Req'd)- Supplier presents findings on Stage 1	0 days	Tue 08/09/15	Tue 08/09/15	0%
Supplier delivers finalised stage 1 deliverables to Customer	0 days	Fri 11/09/15	Fri 11/09/15	0%

Stage 2 - Energy Masterplanning	65 days	Mon 14/09/15	Tue 17/11/15	0%
Stage 2 - Energy master planning undertaken by supplier	40 days	Mon 14/09/15	Fri 23/10/15	0%
Stage 2- Draft deliverables provided to Customer	0 days	Mon 26/10/15	Mon 26/10/15	0%
Customer review period of stage 2 draft deliverables	11 days	Tue 27/10/15	Fri 06/11/15	0%
Project Board Meeting- Supplier presents findings of stage 2	0 days	Tue 10/11/15	Tue 10/11/15	0%
Supplier delivers finalised stage 2 deliverables to Customer (Planned Completion Date)	4 days	Tue 10/11/15	Fri 13/11/15	0%
Supplier/ Customer Contract Close Meeting	1 day	Tue 17/11/15	Tue 17/11/15	0%
External Advisor Procurement (Stage 3)	139 days	Mon 16/11/15	Sat 02/04/16	0%
Draft ITT for Stage 3 (Feasibility Studies)	26 days	Mon 16/11/15	Fri 11/12/15	0%
Forward draft ITT (Stage 3) to HNDU	0 days	Fri 11/12/15	Fri 11/12/15	0%
HNDU ITT (Stage 3) Review Period	28 days	Mon 14/12/15	Sun 10/01/16	0%
Project Board approve ITT (for Stage 3)	5 days	Mon 11/01/16	Fri 15/01/16	0%
Issue ITT and Tender Period	29 days	Mon 18/01/16	Mon 15/02/16	0%
Tender return Date	0 days	Mon 15/02/16	Mon 15/02/16	0%
Tender evaluation	14 days	Mon 15/02/16	Sun 28/02/16	0%
Announce Preferred Supplier and optional 10 day Alcatel standstill period	13 days	Mon 29/02/16	Sat 12/03/16	0%
Award Contract (Commencement Date) and Lead in Period	21 days	Sun 13/03/16	Sat 02/04/16	0%
Stage 3 - Feasibility Studies	93 days	Mon 04/04/16	Wed 06/07/16	0%
Stage 3 - Feasibility	67 days	Mon 04/04/16	Thu 09/06/16	0%
Stage 3- Draft deliverables provided to Customer	0 days	Fri 10/06/16	Fri 10/06/16	0%
Customer review period of stage 3 draft deliverables	11 days	Mon 13/06/16	Thu 23/06/16	0%
Project Board Meeting- Supplier presents findings of stage 1	0 days	Fri 24/06/16	Fri 24/06/16	0%
Supplier delivers finalised stage 3 deliverables to Customer (Planned Completion Date)	7 days	Fri 24/06/16	Thu 30/06/16	0%
Supplier/ Customer Contract Close Meeting	0 days	Wed 06/07/16	Wed 06/07/16	0%

Appendix 3 – HNDU Project Development Stages

HNDU Development Stage	Description
1. Heat mapping	<p>Heat mapping will identify a range of heat network opportunities across a local authority’s jurisdiction, or agreed boundary, through exploration of existing and future heat demand (loads) and sources.</p> <p>Heat demand mapping: Initial identification of the different types of heat demands, the implications of these various heat loads, heat demands.</p> <p>Heat demand assessment: Understanding the implications of the heat demand mapping including heat diversity supply factors, back up and peak load boiler capacity and thermal storage options.</p> <p>Heat supply identification: Understanding the nature, quality and value of different grades of heat from both existing and potential heat sources as well as inter-connectibility of heat sources.</p> <p>An understanding of the likely constraining and defining features that limit options in the geographic area to be investigated will also be established.</p>
2. Energy masterplanning	<p>Working from heat mapping results, network opportunities are prioritised through the energy masterplanning process. Heat network opportunities are linked with existing property development masterplans or associated energy masterplans, and these plans updated to reflect the agreed vision for heat, cooling and their potential interaction and impact with electricity demand and supply. The opportunities and gap analysis will identify a number of possible heat network projects for further investigation.</p> <p>Master planning: Identifying the strategic opportunities for heat networks and trigger points in other development plans which are likely to affect or change the overall energy/supply options. Understanding, at an area-wide level, the implications of constraints of the Town and Country Planning Acts.</p> <p>Planning policy opportunities: Understanding opportunities, and constraints, available through local authority’s application of planning powers including Section 106 and Unilateral Declaration. Energy masterplanning can be supported through the HNDU project leads providing guidance, and grant funding can contribute to external energy masterplanning costs.</p>
3. Feasibility studies	<p>From the feasibility study onwards, a single project would normally be developed in increasing detail. From this point, the technical design, financial model, contractual arrangements and business case are developed through an iterative process as the evolution of each element impacts the other components. As each iteration is developed and evaluated, the local authority will make a decision whether or how to proceed.</p>

	<p>Feasibility study: Understanding the heat supply potential, heat demand/consumer issues, constraints to development, potential financial implications and environmental benefits of a specific heat network opportunity.</p> <p>Heat network pipeline routing: Exploration of proposed heat network pipeline routes and common approaches utilised by other infrastructure or utility services. Issues for consideration include expansion solutions, over-ground solutions, archaeological issues and heavily trafficked area working arrangements.</p> <p>Project cost assessment: Evaluating capital and whole life cost estimates and giving consideration to the factors that are likely to influence the overall costs, such as archaeology, density road type, services and utilities diversion, hard versus soft dig options and access rights.</p> <p>Specialist design and sizing of the proposed heat network, the pumping regime, filtration and water treatment and stand-by/peaking boiler configuration and location and electricity connectivity (where appropriate). Consideration should also be given at this stage to ensure that the consultants engaged have sufficient working knowledge and experience in these very specialised areas of work.</p> <p>Licensing and consenting issues: Ensuring the local authority has considered the various licenses and consents that the project is likely to require to operate. This would include timescales and costs as well as the licenses and consents themselves.</p> <p>Project compilation: Ensuring all of the above factors are considered in context.</p>
4. Detailed project development	<p>Following the initial feasibility study, the technical design, financial model and contractual arrangements are further developed. A business case for internal approval and an investment grade proposal to take to market (whether this is to secure grant funding, funding from utility obligation programmes, third party balance sheet or borrowing, local authority balance sheet funded or prudential borrowing) will subsequently be developed. Consideration will need to be given to commercial delivery options, finance sources, project economics and project governance.</p> <p>Detailed Technical design:</p> <p>Delivery options: Consideration of the commercial models and delivery vehicles that could design, build and operate the heat network.</p> <p>Financial modelling: Working to ensure that the financial model takes into account all of the issues that are likely to have impact.</p> <p>Customer negotiations and commercial agreements: High level discussions with heat customers regarding demand, price and terms for customer heat supply agreements that will be fed into any design / build / operation tender document.</p> <p>Business planning: Looking at the issues that are likely to require consideration in the business plan and/or the investment proposition. This is likely to include all of the key drivers for the</p>

	<p>financial model, the human and mechanical resources required, the technical factors that are likely to make a project more or less attractive to the funding markets and short, medium and long term issues that are likely to be key business drivers for the project.</p> <p>Investment proposition: Developing an investment grade proposal to take to potential funders.</p> <p>Delivery procurement: HNDU support does not extend to supporting the construction or operation of heat networks. The HNDU project lead can provide support, however, as the local authority designs procurement strategies, delivery vehicles, tender documentation and commercial agreements.</p>
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Appendix 4 – Terms of Reference

Greater Lincoln District Heating Network – Viability Studies

Terms of Reference (Project Board & Consultation Group)

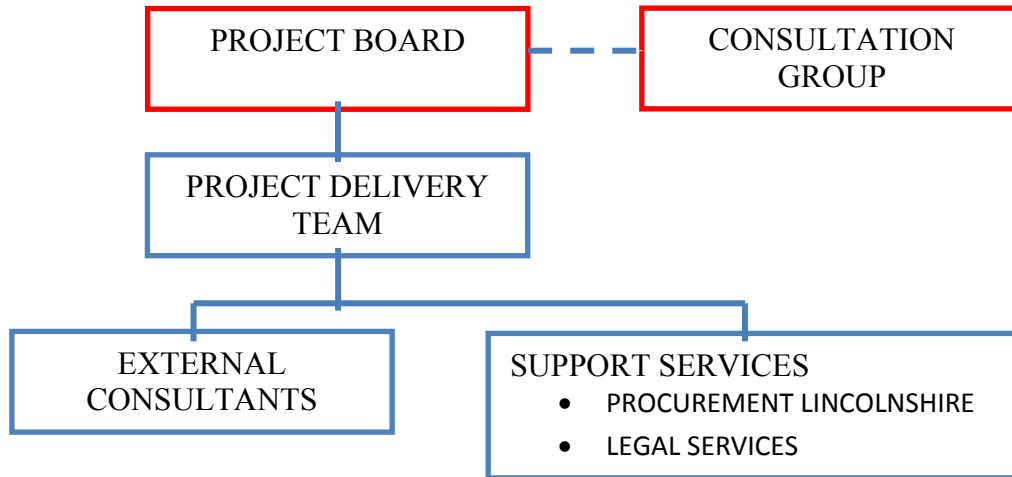


Figure 1: Proposed Governance Structure

Introduction

This paper sets out the terms of reference for the 'Project Board' and 'Consultation Group' to be set up for a project looking into the viability of a Greater Lincoln District Heating Network.

Background

- Lincolnshire County Council will shortly commission a study into the development of a district heating network in the Greater Lincoln area, powered solely (or largely if other sources of heat are identified) by the new Energy from Waste facility in North Hykeham.
- LCC has applied for grant funding from the Heat Network Development Unit (part of DECC) to cover part of the costs of external advice.
- Initially the project will cover three stages only:
 - Stage 1 – Heat Mapping
 - Stage 2 – Energy Master Planning
 - Stage 3 – Feasibility Studies
- Further stages could be commissioned by LCC should results from stages 1, 2 and 3 show a viable district heating network could be developed
- Refer to appendix 1 for more details on each stage

Terms of Reference

Please refer to Part I and Part II below for the terms of reference for the Project Board and Consultation Group respectively.

PART I: PROJECT BOARD

Purpose / role of the board:

A project board will be formed which will have the responsibility of directing the project, reviewing progress, co-ordinating work streams, sharing information as well as raising the awareness of the project through all council organisations (LCC/CoLC/NKDC), stakeholders via the Consultation Group and the wider community.

The Project Board will meet at regular intervals including project initiation and dates coinciding with production of project deliverables.

Membership:

The Project Board will be formed by the following individuals:

- Portfolio Holder (LCC) – Reg Shore (Executive Councillor for Recycling and Waste)
- Portfolio Holder (LCC) – Colin Davie (Executive Councillor for Economic Development, Environment, Planning and Tourism)
- Project Sponsor (LCC) – Steve Willis C.Eng M.I.C.E. (Chief Operating Officer)
- Project Manager (LCC) – Sean Kent C.Eng M.I.C.E. (Group Manager Environmental Services)
- Legal/Procurement/Commercial Expert (LCC) – Sophie Reeve (Chief Commercial Officer)
- Senior Representative of City of Lincoln Council
- Senior Representative of North Kesteven District Council

Accountability

- Responsibility for directing the project, reviewing progress, co-ordinating work streams and signing off each stage of the project development process.
- The board will provide advice and/or guidance as appropriate to the Project Delivery Team on developing and monitoring a general strategic approach to the development of a district heating network in the Greater Lincoln area.
- Responsibility to review the deliverables produced by the Project Development Team including:
 - Invitation to Tenders (ITT)
 - Advisor Specification

- Results of stage 1 (heat mapping), stage 2 (energy master planning) and stage 3 (feasibility studies)
- The board will liaise with the Consultation Group, and other stakeholders is required, and to take into account any feedback obtained from this
- The board will provide recommendations or direction for the next stages of the project development process.

Meetings / Working methods

- The board will meet a minimum of 4 times:
 - HNDU Project Lead Kick Off Meeting
 - Review of Stage 1 deliverables
 - Review of Stage 2 deliverables
 - Review of Stage 3 deliverables
- Members of the Board will receive papers one week before each meeting.
- Minutes of the meeting will be kept by a minute taker and agreed by all members of the board who attended the meeting.
- Members may be contacted by the Project Delivery Team between meetings for advice should the need arise.
- From time to time sub-groups may be formed to work on specific issues as appropriate.
- From time to time individuals may be co-opted to provide specific advice and expertise as required.
- The board may request members of the Consultation Group and/or Project Delivery Team to speak at its meetings as seems appropriate and reasonable, and may request feedback with regard to the recommendations it makes to the Project Delivery Team.

Part II: CONSULTATION GROUP

Purpose / role of the group:

- The Consultation Group is being formed to capture feedback from key stakeholders in the potential development of a Greater Lincoln District Heating Network powered by the recently commissioned Energy from Waste facility in North Hykeham.
- This feedback from the Consultation Group will be used by the Project Board to help them direct the project, co-ordinate work streams, review progress and make recommendations for next stages of development.
- Initially the scope of the project is limited to Heat Mapping (Stage 1), (Energy Master Planning (Stage 2) and Feasibility Studies (Stage 3). The Consultation Group remit could be extended to cover further stages if results obtained from stages 1, 2 and 3 show a viable heat network could be developed.

Membership:

- The Consultation Group will be made up of representatives from key stakeholders including:
 - City of Lincoln Council Project Officer (Dave Bowskill?)
 - North Kesteven District Council Project Officer
 - Senior planning officer from all three authorities (LCC/NKDC/CoLC)
 - Senior officer from the Waste Disposal Authority (LCC)
 - Senior officer from the Highway Authority (LCC)
 - Sara Kendall – Senior Project Officer (SUSTAIN Lincolnshire)
 - Senior officer from Economic Development from all three authorities (LCC/NKDC/CoLC)

Review

- It is anticipated the Consultation Group will be called upon to review the three stages of the project development process:
 - Review of the findings of stage 1 (Heat Mapping)
 - Review of the findings of stage 2 (Energy Master Planning)
 - Review of the findings of stage 3 (Feasibility Studies)
- Feedback should include any knowledge of additional opportunities for heat demand or sources, any obstructions/restrictions to the development of a heat network and/or any other information/recommendations relevant to the project.
- If required, each stakeholder organization will nominate a representative to co-ordinate any feedback to the Project Board.
- If the findings of stage 1, 2 and 3 are that a viable heat network could be developed, the Consultation Group may be called upon to review additional stages of the project development process.

Working methods

- Members of the Group will receive papers (including the deliverables) for a one week review period prior to the Project Board meeting.
- The nominated representative must provide feedback, in written format, on the papers/deliverables within the review period (at least 1 day before the Project Board meeting).
- Members may be contacted at any point in the process for advice should the need arise including by our appointed external advisors. Members are asked to arrange for prompt responses to queries or requests for information in good time to avoid unnecessary delays to the timetable.
- From time to time sub-groups may be formed to work on specific issues as appropriate.
- From time to time individuals may be co-opted to provide specific advice and expertise as required.

Meetings

- Each organization is responsible for arranging their own internal review meetings if required.
- The Project Board, or members of, may call for a meeting with some or all of the members of the Consultation Group if needed.



LINCOLNSHIRE WASTE PARTNERSHIP

13 April 2015

SUBJECT :	JOINT MUNICIPAL WASTE MANGEMENT STRATEGY (JMWMS)
REPORT BY:	SEAN KENT
CONTACT NO:	01522 554833

BACKGROUND INFORMATION

Local Authorities have a fundamental role in delivering sustainable waste outcomes. In recognition of the fact that the division of responsibilities between the Waste Disposal and Collection Authorities can make sustainable waste management more difficult, the Waste Strategy 2000 set out the need for Authorities in areas where there are two tiers of local government to work closely together. Waste Strategy 2000 encouraged all Authorities to produce comprehensive municipal waste management strategies and included a commitment to make this a statutory requirement.

The present JMWMS was published in 2008 and this is expected to be refreshed every five years.

The LWP received a JMWMS report on the Strategic Environmental Assessment (SEA) at its meeting on the 17 October 2013. (see Appendix A). The purpose of this report was to present the scoping stage of the SEA process (see Appendix B). It provided the context and baseline information and a starting point from which to appraise the effects of implementing the JMWMS.

Subsequently, the progression of a JMWMS has subsequently been delayed due to the extensive considerations regarding the Mixed Dry Recycling contract. This report is to highlight the need the need to re-start this process, confirm the staff resources and to update the previous work undertaken on the SEA.

STRATEGY STAGES

The key stages which will need to be completed are:

- Inception
- Data collection – waste statistics, growth, present performance
- Legal obligations and guidance that will shape the Strategy period.
- Formation of strategy objectives, through workshops with key stakeholders
- Preparation of draft strategy and SEA Scoping
- Consult on draft strategy and SEA scope
- Refine strategy, undertake SEA
- Council approval process of the strategy and SEA
- Publish final Strategy and SEA

It is expected that the above could take up to 18 months dependant on the periods of approval process within the Authorities. The only statutory period is the 5 week statutory consultation period on the SEA scoping.

The staff resourcing and the use of a consultant needs to be carefully considered for the drafting of the Strategy and the SEA, with milestone reporting to the LWP. Previously there was an action plan of resourcing the production of the Strategy which will need to be considered and updated accordingly (Appendix C).

RECOMMENDATION

The Lincolnshire Waste Partnership is recommended to endorse:

1. The Officer Working Group is tasked to progress the production of the JMWMS, review the previous work on the SEA and to report regularly to the Partnership on progress.
2. The resourcing of County and District Officers to produce the JMWMS before the end of 2017.

and includes a reference to the development of waste management facilities. The Strategy Review Group have included this as development of the strategy may need to consider the provision of household and trade waste recycling facilities, a Material Reclamation Facility (MRF) for Lincolnshire and other waste-related amenities.

However Table 5-1 and section 9 Appendix A do not include the topics that would need to be included should the development of waste management facilities be retained in the scope of the JMWMS.

Section 9.1 also lists documents related to each partner authority, and LWP members are asked to check that only current and relevant documents have been included and to make such additions and deletions as are required.

This is also an opportunity for members of the Lincolnshire Waste Partnership to comment on what has been included and to make suggestions as to any areas and issues they feel have been missed off or other areas they would like to see considered as a part of the SEA.

RECOMMENDATIONS

The Lincolnshire Waste Partnership is recommended to:

- I. Receive the presentation;
- II. Confirm the inclusion of the development of waste management facilities in the scope of the JMWMS;
- III. Each member of the Lincolnshire Waste Partnership to check the documents related to their authority that have been included in Section 9.1 and to make such changes as are required (by not later than 15 November);
- IV. Raise any other issues they may have with the Scoping Report of the draft Strategic Environmental Assessment of the Joint Municipal Waste Management Strategy (either at the meeting or in writing by not later than 15 November).

Lincolnshire County Council Joint Municipal Waste Management Strategy

Strategic Environmental Assessment Scoping Report

October 2013

Produced for
Lincolnshire County Council



Produced by
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Acronyms and Abbreviations

AQMA	Air Quality Management Area
CHP	Combined Heat and Power
CO ₂	Carbon Dioxide
DCLG	Department for Communities and Local Government
EfW	Energy from Waste
ha	Hectare
HRA	Habitats Regulation Assessment
JMWMS	Joint Municipal Waste Management Strategy
Kt	Kiloton
LCC	Lincolnshire County Council
LWP	Lincolnshire Waste Partnership
MSW	Municipal Solid Waste
Mt	Megaton
NO	Nitrogen Oxides
NO ₂	Nitrogen Dioxide
ONS	Office of National Statistics
PM ₁₀	Particulate Matter
PPP	Plans, policies and programmes
SAM	Scheduled Ancient Monument
SEA	Strategic Environmental Assessment
SUDS	Sustainable Urban Drainage System
UK	United Kingdom

1 Introduction

1.1 Background

Lincolnshire County Council (LCC) commissioned Mouchel to undertake a Strategic Environmental Assessment (SEA) of the replacement Joint Municipal Waste Management Strategy (JMWMS) in July 2013.

LCC is a member of the Lincolnshire Waste Partnership (LWP) which is a body formed of LCC, the Environment Agency and the 7 district councils within Lincolnshire:

- Boston Borough Council
- City of Lincoln Council
- East Lindsey District Council
- North Kesteven District Council
- South Holland District Council
- South Kesteven District Council
- West Lindsey District Council

The current JMWMS for Lincolnshire was published by the LWP in June 2008, with the aim of providing information on the following:

- The current and future legal obligations that the partnership needs to meet;
- The waste management services that are currently provided;
- How the Partnership plans to meet the targets by reducing the amount of waste that is produced, increasing the amount of waste that is recycled and recovered, and minimising the amount of residual waste that is landfilled; and,
- How the Partnership plans to implement this strategy.

Since 2008, Lincolnshire has made significant progress towards achieving these aims through securing a 25 year contract with FCC Environment in March 2011, for the disposal of residual Municipal Solid Waste (MSW) and constructing a 150,000 tonne per annum Energy from Waste (EfW) facility at North Hykeham in Lincoln.

A revised waste strategy is therefore necessary to address the present waste management challenges in Lincolnshire and to address its future needs.

1.2 The SEA Process

The SEA process ensures that the environment is integral to the consideration of plans, policies and programmes. It ensures that significant environmental effects are identified, assessed, mitigated, communicated to decision-makers, monitored and that opportunities for public involvement are provided.

1.3 The Scoping Report

The purpose of this report is to present the scoping stage of the SEA process. It provides the context and baseline information, a starting point from which to appraise the effects of implementing the JMWMS.

To provide a sound basis for analysis, the report sets out:

- other plans, programmes and environmental objectives relevant to the JMWMS;
- baseline information, either collected or still needed, with notes on sources and any problems encountered in gathering the information;
- the key environmental considerations and opportunities; and
- a set of SEA objectives that take into account the relationship between the JMWMS and the objectives of other plans and programmes, along with the findings of the baseline information review. These objectives will form the basis of the SEA framework within which the assessment of the JMWMS will be undertaken.

1.4 Consultation

It is important that the scope of the SEA is appropriate for the documents being produced. For this reason, consultation is a critical step in the scoping process. The aim of the consultation on the Scoping Report is to involve and engage with statutory consultees and other key stakeholders on the scope of the assessment, in the light of the information it contains. This Scoping Report will be subject to a five-week consultation. In considering the report, consultees will be asked to address the following questions:

- Question 1 - Have all relevant plans, policies and programmes been considered?
- Question 2 - Does the baseline information reflect the current situation in the JMWMS area or are there additional social, environmental or economic factors that should be considered?
- Question 3 - Do the issues identified in this report cover all the significant environmental and sustainability issues relevant to the JMWMS area?
- Question 4 - Do the SEA objectives reflect the right aspirations for development of more sustainable approaches to waste management?

1.5 Legislative Requirements

1.5.1 Strategic Environmental Assessment

In the European Union an SEA is required for all member states on all plans and programmes by European Community Directive (2001/42/EC) ‘on the assessment of the effects of certain plans and programmes on the environment’, known as the ‘SEA Directive’. The Directive is implemented in England through the Environmental Assessment of Plans and Programmes Regulations (Statutory Instrument (SI) 1633 2004).

An SEA of a Waste Strategy is a minimum requirement of Defra, with authorities obliged to consider whether a wider Sustainability Appraisal (SA) is necessary.¹

1.5.2 Waste and Emissions Trading Act

The Waste and Emissions Trading Act 2003 requires two-tier areas such as Lincolnshire to have a joint strategy for the management of municipal waste in place before April 2005. Waste Management Strategies require a review every 5 years to ensure that they remain current.¹

¹ Defra, Guidance on Municipal Waste Management Strategies, July 2005

2 Lincolnshire Joint Waste Management Strategy

2.1 Study Area

The study area covers the county of Lincolnshire, incorporating the districts of Boston, City of Lincoln, East Lindsey, North Kesteven, South Holland, South Kesteven and West Lindsey.

The county is predominantly rural and has a geographical area of 2,309 sq miles. The main urban area is around the city of Lincoln which is a cathedral town with a rich history dating back to Roman times. Other centres of population include Gainsborough, Louth, Mablethorpe, Skegness, Boston, Sleaford, Grantham, Stamford and Spalding.

Lincolnshire's coastline contains some of the country's most versatile agricultural land, a successful tourism industry and internationally-renowned nature conservation sites.

2.2 Purpose and Objectives of the JMWMS

The JMWMS seeks to provide a mechanism by which joint working by the districts and LCC, as well as the Environment Agency, can be achieved to deliver sustainable waste management services and establish best value waste management practices. The framework provided by the JMWMS allows the LWP to continually improve the waste services offered, minimise costs and meet challenging recycling and landfill diversion targets.

The LWP has developed and agreed a set of high level objectives to assist in delivering the current JMWMS and these are set out below:

1. To prevent the growth in municipal waste by promoting waste reduction and reuse initiatives to ensure no more than 225kg of residual household waste per person per year is produced by 2020.
2. To promote waste awareness through co-ordinated public education and awareness campaigns, and effective community engagement.
3. Across Lincolnshire to achieve 55% recycling and composting by 2015.
4. Across Lincolnshire to achieve a uniform dry recyclables waste stream by 2013.
5. To increase progressively the recovery and diversion of biodegradable waste from landfill, to meet and exceed the Landfill Directive diversion targets.
6. To ensure that residual waste treatment supports energy recovery and other practices higher up the waste hierarchy.
7. To deliver best value for money, waste management services, addressed on a countywide basis.
8. To engage with local businesses to encourage the reduction and recycling of commercial waste.
9. To engage actively, lobby and work with local, national, governmental and other organisations on sustainable waste management issues.

10. As Local Authorities to set an example by preventing, reusing, recycling and composting our own waste and using our buying power to encourage positively sustainable resource use.

2.3 Scope of the JMWMS

The new JMWMS will focus on a range of waste management measures as follows:

- kerbside recycling;
- garden waste collection;
- minimising residual waste;
- increasing re-use;
- maximisation of income stream;
- wider integrated working across Lincolnshire;
- food waste collection;
- reduced carbon impacts; and
- minimising contamination.

The JMWMS will also consider wider issues around population growth and how waste management will need to respond commensurately in an environmental and sustainable manner. The JMWMS may also consider the development of waste management facilities although substantial development was achieved within the current waste management strategy.

3 SEA Methodology

3.1 Approach to the SEA

This scoping report has been developed in accordance with guidance set out in the ‘Practical Guide to Strategic Environmental Assessment Directive’ (Department for Communities and Local Government (DCLG), previously Office of the Deputy Prime Minister; 2005). The DCLG SEA guidance outlines five sequential steps, which are listed in Table 3-1. This report presents the findings of Task A1 to A4 of the SEA process.

Table 3-1 SEA Stages

SEA Stages	SEA Tasks
Stage A: Setting the context and objectives, establishing the baseline and deciding on the scope.	• A1: Identifying other relevant policies, plans and programmes
	• A2: Collecting baseline information
	• A3: Identifying environmental considerations
	• A4: Developing the SEA objectives
	• A5: Consulting on the scope of the SEA
Stage B: Developing and refining options and assessing effects	• B1: Testing the JMWMS objectives against the SEA objectives
	• B2: Developing the alternatives
	• B3: Predicting the effects of the JMWMS including alternatives
	• B4: Evaluating the effects of the JMWMS including alternatives
	• B5: Considering ways of mitigating adverse effects
	• B6: Proposing measures to monitor the environmental effects of implementing the JMWMS
Stage C: Environmental Report	• C1: Preparing the Environmental Report
Stage D: Consulting	• D1: Consulting on the JMWMS and the Environmental Report
	• D2 (i): Assessing significant changes
	• D2 (ii): Appraising significant changes resulting from representations
	• D3: Making decisions and providing information
Stage E: Monitoring the significant effects of implementing the plan on the environment	• E1: Finalising aims and methods for monitoring
	• E2: Responding to adverse effects

The DCLG guidance has been used in conjunction with other best practice guidelines including Sustainability Appraisal and the Historic Environment (English Heritage).

In addition, Defra's 'Guidance on Municipal Waste Management Strategies' has also been considered.

3.2 Habitats Regulations Assessment

The JMWMS is a high level document which will potentially consider the development of waste infrastructure, and therefore could require assessment under the Habitats Regulations. If this is undertaken, it would be possible to determine whether the strategy could lead to potentially significant effects on Natura 2000 sites.

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4 Identifying Other Relevant Policies, Plans and Programmes – Task A1

4.1 Introduction

The first stage of the scoping process is to identify and review other relevant policies, plans and programmes (PPP). The JMWMS will be set in the context of a wide range of other relevant plans, programmes and environmental objectives both within and outside LCC's jurisdiction.

The purpose of the review exercise is to establish and take account of any environmental objectives at international, national, regional, sub-regional, or local levels that will inform the SEA and therefore the development of the JMWMS. It will ensure that any potential policy conflicts or synergies can be identified at an early stage. This provides an opportunity for the JMWMS to be adapted to reduce or eliminate potential conflicts and enhance synergies.

A wide range of PPPs has been identified during the scoping stage of the SEA and these are set out in Appendix A.

-

5 Baseline Information – Task A2

5.1 Introduction

The next task in the SEA covers the collection of baseline information which seeks to establish the current environmental status of the study area covered by the JMWMS, and to identify trends in environmental parameters. This information is then used to assess current environmental and sustainability issues that are evident in the area. The baseline information is intended to provide a basis for predicting and monitoring the effects of implementation of the strategy.

5.2 Environmental Topics

In order to focus the SEA on key issues that require detailed analysis, an initial sifting exercise has been undertaken to avoid including environmental topics (including baseline information or plans and programmes concerning these themes), which are of no clear relevance to the JMWMS. The environmental components that are unlikely to be significantly affected by the JMWMS have therefore been ‘scoped out’ of the assessment at this stage. Other issues can be added, either during the scoping stage or later on, if it transpires that the JMWMS may have a significant effect on them. Table 5-1 below details individual environmental topics relevance to the JMWMS and whether it has been ‘scoped in’ or ‘scoped out’ of the SEA.

Table 5-1 Environmental Topics scoped into, or out of, the SEA Process

Topics Covered in the SEA	Relevance to the JMWMS	Scoped In/ Out
Climatic Factors	Waste management decisions informed by the Strategy have the potential to impact on Lincolnshire’s Greenhouse Gas (GHG) emission levels. For example, reducing the mileage of the collection fleet would result in a fall in carbon emissions. Alternatively, increasing the percentage of recyclables captured within the collection regimes will move waste up the hierarchy and in all likelihood reduce carbon emissions.	In
Air Quality	The JMWMS will need to consider any impacts of operational processes on air quality, particularly due to the nature of waste collections which rely on vehicles and the transport network. Local air quality is largely influenced by transport and HGVs are an important source of both NO ₂ and PM ₁₀ emissions. Furthermore, the effects of composting may have an impact on air quality which will need to be assessed accordingly.	In
Noise	Waste management is unlikely to have significant effects on noise levels due to the nature of the strategies proposed in the JMWMS. These do not involve any construction, but instead promote recycling, garden waste collection and composting. Noise has therefore been scoped out of the process at this stage.	Out
Biodiversity, Flora and Fauna	Biodiversity, flora and fauna is unlikely to be significantly affected by the JMWMS as there are no policies or objectives that will influence land use or management. Biodiversity, flora and fauna has therefore been scoped out of the process at this stage.	Out

Geology and Soils	Measures contained in the JMWMS involve collection of garden waste and composting may have the potential to affect the composition of soils. An increase in the collection of green waste and the subsequent creation of compost can therefore potentially benefit soils.	In
Water	Water Quality and Flood Risk It is unlikely the JMWMS will impact on both surface and groundwater quality and supply in Lincolnshire. In addition, it is not considered that the waste management processes being promoted in the JMWMS will have an impact in terms of flood risk. The water environment has therefore been scoped out of the process at this stage.	Out
Population	The JMWMS will need to consider the needs of the existing and future population of Lincolnshire, particularly in relation to promoting waste awareness. Waste management decisions may have potential impacts on transport networks, and on the local economy.	In
Material Assets	Waste management operations may impact on material assets, related to transport and social infrastructure e.g. hospitals, roads, residential areas etc.	In
Cultural Heritage	Waste management operations may change the pattern and frequency of waste collections which may impact on areas of heritage value. For example, the setting of listed buildings and Historic Landscape Areas may be affected by the location of wheeled bins or other refuse collection infrastructure. If these were placed in an inappropriate location the setting of the historic asset could be adversely affected.	In
Landscape	The visual impact of waste collection options, whilst possibly having an impact upon listed buildings, as detailed above, is unlikely to be significant when compared with the wider landscape. Landscape has therefore been scoped out of the process at this stage.	Out

The baseline data collected in relation to all the topics above can be found in Appendix B of this scoping report. A summary of the key environmental issues in Lincolnshire which have been identified from the review of the policies, plans and programmes and through an assessment of the baseline data can be found in Section 6 of this report.

5.3 Data Limitations

It should be noted that there is a large amount of environmental information available; this assessment has selected information on the basis that it may be influenced or affected by the JMWMS.

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6 Identifying Environmental Issues – Task A3

The review of PPPs and collection of baseline data has assisted in identifying environmental considerations that should be taken into account during the development of the Lincolnshire JMWMS. Table 6-1 below summarises the key environmental considerations that have been identified to date. It should be noted this is an on-going process that will continue as the SEA and JMWMS develops. It should be noted that not all of the key environmental considerations that are present within Lincolnshire have been addressed in Table 6-1 and this is because the JMWMS will have very limited or insignificant ability to influence decision making relative to these parameters. These have been identified below:

- Healthcare priorities - the strategy will not be able to influence matters relating to human health such as promoting active lifestyles or reduced smoking.
- Tourism - whilst it is acknowledged that tourism is a major factor of the Lincolnshire economy, the JMWMS will not be able to influence the promotion of additional measures to develop tourism further in the county, nor will tourism be likely to be discouraged through any measures proposed and promoted by the JMWMS.
- Mineral Extraction – although Lincolnshire has valuable mineral assets that form an important contributor to the local economy, it is not considered that the JMWMS will be able to influence the use, preservation or development of mineral assets further through any of the policies that it promotes.

Table 6-1 Key Environmental Considerations

Key Environmental Considerations	Opportunities / Constraints for the Lincolnshire JMWMS
Climatic Factors	
CO ₂ emissions are lower in Lincolnshire than in the East Midlands region in 2011. This figure has reduced from levels recorded in 2005.	The JMWMS will need to ensure that it promotes waste management activities that minimise impacts on climate change, minimise GHG emissions and enable the wise use of natural resources. This could be through reduced waste miles for the collection fleet or more efficient use of materials.
Planning applications for renewable energy measures have increased although the visual impact of these measures is being challenged.	Lincolnshire has good renewable energy potential. It is important that waste management decisions consider the current and future renewable energy infrastructure. There is the potential to increase capacity from renewable energy resources through biomass initiatives which can involve the use of municipal waste and/or garden waste.
Climate change could have potential impacts on Lincolnshire's coastal areas, agricultural areas and transport infrastructure.	The JMWMS will need to ensure that it promotes waste management activities that minimise impacts on climate change, minimise GHG emissions and enable the wise use of natural resources.
Air Quality	
Air quality is considered to be good, although there are 6 AQMAs within the county, established primarily as a result of pollution from traffic emissions.	The JMWMS should seek to ensure that its operations do not impact negatively on the ability of Lincolnshire to retain its current levels of air quality. The transport implications of its waste management services will need to be carefully examined to consider opportunities for contributing towards the improvement of local air quality.
Geology and Soils	
Lincolnshire contains a wide variety of soils that are used to support an important agricultural sector.	The JMWMS will need to consider the potential effects of objectives and actions on local soils. At a small scale, garden waste collections and increased composting activities, for example, could provide positive

Key Environmental Considerations	Opportunities / Constraints for the Lincolnshire JMWMS
	benefits for soil composition or the promotion of home composting could improve local soil quality.

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Key Environmental Considerations	Opportunities / Constraints for the Lincolnshire JMWMS
Population	
<p>The population of Lincolnshire has increased by 63,200 people in the ten year period to 2012. A breakdown of this data shows that the county continues to have an ageing population and is less ethnically diverse than other areas.</p>	<p>The JMWMS will need to consider the impact of rising population levels and how the waste generated will be addressed. The JMWMS will need to understand the main areas affected and ensure that waste management operations are planned accordingly.</p>
<p>Deprivation across Lincolnshire has worsened slightly from 2007 to 2010.</p>	<p>The JMWMS will need to ensure that its proposed measures do not exacerbate deprivation levels and where possible, provide improvements to all residents.</p>
<p>The economy of Lincolnshire has not been affected in the economic downturn to the extent that has occurred nationally. However, many businesses have reported difficult trading conditions.</p>	<p>There is an opportunity for the JMWMS to respond positively to the economic climate in determining how its operations will be organised and run. There is also an opportunity to provide training and apprenticeships to young people or those looking for work to expand their skills base.</p>
Material Assets (includes critical infrastructure, transport, access, housing, land-use and waste)	
<p>Increasing demand on the transport network and an increase in concern around the environmental impact of traffic.</p>	<p>It is essential to ensure that the JMWMS considers issues around waste transportation to both enable appropriate waste management across the county and limit its impact where possible.</p>
<p>Waste collection and disposal results in lorry movements into and out of the county to waste management facilities. Regular collections are required from households and with the number of households increasing and the total amount of waste increasing; there is the potential for an impact on transport.</p>	<p>It is essential to ensure that the JMWMS considers issues around waste transportation to enable appropriate waste management across the county.</p>
<p>New housing and employment sites being identified across the county,</p>	<p>It is essential to ensure that the JMWMS considers such issues regarding the increasing number of households and corresponding increases in waste generation and waste transportation to enable appropriate waste management across the County.</p>

Key Environmental Considerations	Opportunities / Constraints for the Lincolnshire JMWMS
	The JMWMS will need to ensure that waste operations are flexible and can respond to new developments across the county. Any waste related matters that can be influenced at the planning stage for new housing and employment development, that could have positive impacts on the environment should be considered.
Lincolnshire contains a significant amount of best and most versatile agricultural land and is a large producer of produce.	The JMWMS needs to consider protection for agriculture and the infrastructure required for transportation. In addition, the ability of agricultural operations to contribute to elements of the waste strategy, such as composting activities, should be explored through the JMWMS.
Cultural Heritage	
Lincolnshire has a large number of heritage assets including 162 conservation areas, 7200 listed buildings and 478 scheduled ancient monuments across the county. There are also 42 Historic Character Zones.	The JMWMS should ensure that waste management operations should not have adverse visual or other impacts on the heritage resource of the County and where possible enhance/ protect it further.

7 Developing the Strategic Environmental Assessment Framework

This scoping report has taken into account the wide range of plans and programmes in Appendix A and information collected in chapter 5 to produce a robust list of SEA objectives covering the topic areas listed in the SEA Directive below:

- Climatic Factors;
- Air Quality;
- Geology and Soil;
- Population;
- Material Assets; and
- Cultural Heritage.

As detailed in Table 5-1, the SEA Directive topics Noise, Water and Landscape have been scoped out of the assessment at this stage and no further assessment of these topics will take place. As such there are no SEA objectives relating to noise, water and landscape.

The SEA framework provides a method for describing, analysing and comparing the environmental and sustainability effects of plans and policies. A series of SEA objectives has been developed, taking into account the relationship between the JMWMS and the objectives of other plans and programmes, along with the findings of the review of baseline data. These objectives will form the basis for the SEA framework within which the evaluation of the JMWMS objectives and actions will be carried out. These are contained within Table 7-1 below.

These SEA objectives will be sent out for consultation with the statutory bodies and relevant stakeholders to ensure that all relevant plans and programmes have been considered and incorporated.

Following consultation, the SEA objectives will be updated and will undergo compatibility testing which will indicate if they are compatible with each other. The outcome of the testing does not invalidate the objectives, but instead identifies the areas which may require particular attention when developing alternative approaches in the future.

Potential indicators relating to each SEA objective are also set out in Table 7-1. It is anticipated that the indicators will be reviewed and revised during the SEA process and take into account comments received during consultation on the scoping report and any issues arising from the assessment of the JMWMS.

Table 7-1 SEA Objectives and Potential Indicators

SEA Objectives	Potential Indicators	Responsible Authority for collecting information
Climatic Factors		
1. Contribute to reduced carbon emissions from energy use.	Amount of fuel used in waste management collections per annum.	Local Authority
2. Waste management collection infrastructure contributes to the circular economy through the use of recycled materials.	Percentage recycled content of new waste/recycling containers per annum	Local Authority
Air Quality		
3. To prevent deterioration of air quality within the county and where possible make improvements.	Percentage of Euro VI engines, electric vehicles, hybrid vehicles, biogas or hydrogen fuelled vehicles operating on behalf of the local authorities in a waste management related capacity per annum	Local Authority
Geology and Soil		
4. Promote the conservation and wise use of land, and protect soil quality and quantity.	Tonnes of green waste that is used as compost per annum	Local Authority
	Fly tipping incidents per annum	Environment Agency/Local Authority
Population		

SEA Objectives	Potential Indicators	Responsible Authority for collecting information
5. To encourage economic investment through waste management.	Monetary value of new waste management infrastructure developed per annum	Local Authority
6. To ensure that the growing population of Lincolnshire does not lead to an increase in the percentage of waste disposed of.	Total percentage of waste recycled and composted per annum	Environment Agency/Local Authority
	Total percentage of waste recovered per annum	Environment Agency/Local Authority
7. To encourage material re-use/waste avoidance.	Waste generated per capita per annum	Environment Agency/Local Authority
8. To ensure sustainable use of resources through effective waste management.	Amount of energy generated by the EfW (as a measure of non-combustible diversion rates) per annum	Local Authority
	Amount of heat exported from the EfW.	Local Authority
	Percentage of contaminated material per month (as an indicator of resources lost to less sustainable management)	Local Authority
Material Assets		
9. To facilitate opportunities for recycling within residential development.	Proportion of housing scheme planning approvals where dedicated waste management storage considerations are included in the application per annum	Local Planning Authority
10. To protect agricultural resources from waste management activities	Area of agricultural land lost to waste management uses per annum	Local Authority
Cultural Heritage		

SEA Objectives	Potential Indicators	Responsible Authority for collecting information
11. Protect and enhance the historic environment, heritage assets and their setting (including architectural and archaeological heritage)	Support or neutral opinions on planning applications for waste management infrastructure from consultees in the cultural heritage sectors	Local Planning Authority
	New waste collection programmes implemented with consideration for impacts upon cultural assets per annum	Local Authority

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8 Next Steps

8.1 Consultation

The SEA Regulations require that the following three statutory consultation bodies be consulted with regards to the scope and level of detail of the environmental information contained within the SEA scoping report. The consultation bodies are;

- The Environment Agency;
- Natural England; and
- English Heritage.

It is also considered appropriate for other bodies, which reflect a balance of social, economic and environmental interests, to be consulted. These will be identified as the new JMWMS is prepared.

The scoping report will be sent to all the Statutory Consultees, as set out above, for a five week consultation period and all consultation responses received will be used to inform the SEA Environmental Report (Stage B). The scoping report will be made available on the local authority web site.

8.1.1 Next Steps

During Stage B (See Table 3.1) of the SEA process the objectives and actions of the JMWMS will be appraised by the SEA Framework and all the results, recommendations and mitigation will be summarised in an Environmental Report and incorporated into the JMWMS where appropriate.

9 Appendix A: Relevant Plans, Policies and Programmes

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Table 9-1 Relevant Plans, policies and programmes

Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
International			
World Heritage Convention in 1972.	12	To ensure, as far as possible, the proper identification, protection, conservation and presentation of the world's heritage, the Member States of UNESCO adopted the World Heritage Convention in 1972. The Convention foresees the establishment of a "World Heritage Committee" and a "World Heritage Fund". Both the Committee and the Fund have been in operation since 1976.	Cultural Heritage
European Convention on the Protection of the Archaeological Heritage revised 1985	12	<ul style="list-style-type: none"> • The aim of this (revised) Convention is to protect the archaeological heritage as a source of the European collective memory and as an instrument for historical and scientific study. • To this end shall be considered to be elements of the archaeological heritage all remains and objects and any other traces of mankind from past epochs: the preservation and study of which help to retrace the history of mankind and its relation with the natural environment; for which excavations or discoveries and other methods of research into mankind and the related environment are the main sources of information; and which are located in any area within the jurisdiction of the Parties; • The archaeological heritage shall include structures, constructions, groups of buildings, developed sites, moveable objects, monuments of other kinds as well as their context, whether situated on land or under water. 	Cultural Heritage
UN Conference on Environment and Development, Rio 1992	All	Requirement that new development should be sustainable.	General
Kyoto Protocol to the UN Framework	1, 2	Improved energy efficiency. Lower carbon intensive forms of energy supply (energy and transport). Reduced industrial process emissions. Improved agricultural practices and livestock management. Management of biodegradable waste.	Climatic Factors

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
Convention on Climate Change (1997)			
Report of the World Summit on Sustainable Development. UN Johannesburg (2002)	All	The report aims to reverse the trend in the loss of natural resources, encouraging waste reduction and producer responsibility. It also plans to tackle climate change and energy and to promote sustainable communities.	General
European			
Waste Framework Directive (2008/98/EC)	10, 11	Repeals the previous directive 2006/12 on waste and directives 75/439/EEC and 91/689/EEC regarding waste oils and hazardous waste respectively. It introduces new provisions in order to boost waste prevention and recycling as part of a waste hierarchy and clarifies key concepts namely, the definitions of waste, recovery and disposal and lays down appropriate procedures applicable to by-products and to waste that ceases to be waste.	Waste, Material Assets
Landfill Directive (1999/31/EC)	10, 11	Sets out sets mandatory targets for the reduction of biodegradable municipal waste sent to landfill.	Waste, Material Assets
Directive on packaging and packaging waste (94/62/EEC)	10, 11	This Directive aims at reducing packaging waste in the European Community. Member States are required to prevent the formation of packaging waste and to develop packaging reuse systems, which reduce their impact on the environment.	Waste, Material Assets

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
Waste Electrical and Electrical Equipment Directive (2002/96/EC)	10, 11	The directive aims to minimise the impact of electrical and electronic goods on the environment. It looks to increase re-use and recycling of waste electrical and electronic goods by also reducing the amount going to landfill. It seeks to achieve this by making producers responsible for financing the collection, treatment, and recovery of waste electrical equipment, and by obliging distributors to allow consumers to return their waste equipment free of charge.	Waste, Material Assets
Industrial Emissions Directive (2010/75/EU)	10, 11	The intention of the Directive is to provide a consistent, best available technique (BAT) based approach to the regulation of waste treatment techniques which can be used both for disposal and for recovery and which have the potential to cause environmental damage if they are not appropriately controlled.	Waste, Material Assets
Waste Incineration Directive (2000/76/EC)	10, 11	Aims to prevent or limit as far as practicable the negative effects of waste incineration on the environment, in particular pollution by emissions into air, soil, surface water and groundwater and the resulting risks to human health, from the incineration and co-incineration of waste.	Waste, Material Assets
Directive on Batteries (2006/66/EC)	10, 11	A new Directive on batteries was published in September 2006 includes the UK. The original batteries Directive (91/157/EEC) only covered consumer batteries containing mercury, lead, and cadmium above a certain threshold level. The new directive will require collection schemes (financed by battery manufacturers) to be set up, and these will need to collect 25% of household batteries by September 2012 and 45% by September 2016. The UK is currently recovering less than 1% of household batteries.	Waste, Material Assets
The IPPC Directive, concerning integrated pollution prevention and control (2008/1/EC)	3, 5, 6, 7, 8, 9	To prevent, reduce and eliminate pollution at source through the efficient use of natural resources. It is intended to help industrial operators move towards greater environmental sustainability. It sets standards and target dates for reducing concentrations of fine particles, which together with coarser particles known as PM10 already subject to legislation, are among the most dangerous pollutants for human health.	Air Quality, Population and Human Health

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
Directive 1966/62/EC on ambient air quality and management	3, 5, 6, 7, 8, 9	Establishes mandatory standards for air quality and sets limits and guide values for sulphur and nitrogen dioxide, suspended particulates and lead in air.	Air Quality, Population and Human Health
Directive 2008/50/EC on ambient air quality and cleaner air for Europe	3, 5, 6, 7, 8, 9	This directive establishes new air quality objectives for PM2.5 (fine particles), the possibility to discount natural sources of pollution and for time extensions of PM10 or up to five years (NO2, benzene) for complying with limit values, based on conditions and the assessment by the European Commission.	Air Quality, Population and Human Health
Green Paper: A European strategy for sustainable, competitive and secure energy (2006)	1, 2	Commission proposes a common European energy policy which will enable Europe to face the energy supply challenges of the future and the effects these will have on growth and the environment. This document aims to strike a balance between economic development and the quality and safety demands made by society in order to develop a modern, sustainable transport system for 2010.	Climatic Factors
European Landscape Convention 2000	12	The European Landscape Convention introduced the concept of “landscape quality objectives” into the protection, management and planning of geographical areas. Members of the council noted that the landscape has an important public interest role in the cultural, ecological, environmental and social fields, and constitutes a resource favourable to economic activity and whose protection, management and planning can contribute to job creation. It also noted that developments in agriculture, forestry, industrial, mineral production techniques, in regional planning, town planning, transport, infrastructure, tourism, recreation and, at a more general level, changes in the world economy are in many cases accelerating the transformation of landscapes.	Cultural Heritage

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
EC Sustainable Development Strategy Revision (2005)	All	<ul style="list-style-type: none"> • Combat climate change • Ensure sustainable transport • Address threats to public health • Manage natural resources more responsibly and stop biodiversity decline • Combat poverty and social exclusion • Meet the challenges of an ageing population 	General
Nitrates Directive (91/676/EEC)	4, 5, 6, 7, 8, 9	Prevention of eutrophication and water pollution Human health and ecosystem protection. Nitrate Vulnerable Zones (NVZs) designated in vulnerable sites.	Soil, Population and Human Health
National			
Government Review of Waste Policy in England 2011		<p>This Government review sets out 13 commitments to progress towards a zero waste economy. It prioritises efforts to manage waste in line with the waste hierarchy and reduce the carbon impact of waste.</p> <p>As part of a more sustainable approach to the use of materials, delivering environmental benefits and supporting economic growth, the review aims to:</p> <ul style="list-style-type: none"> • Prioritise efforts to manage waste in line with the waste hierarchy and reduce the carbon impact of waste; • Develop a range of measures to encourage waste prevention and reuse, supporting greater resource efficiency; • Develop voluntary approaches to cutting waste, increase recycling, and improve the overall quality of recyclate material, working closely with business sectors and the waste and material resources industry; • Consult on the case for higher packaging recovery targets for some key materials; • Support energy from waste where appropriate, and for waste which cannot be recycled; • Work to overcome the barriers to increasing the energy from waste which Anaerobic Digestion provides, as set 	

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
		<p>out in the new AD strategy;</p> <ul style="list-style-type: none"> • Consult on restricting wood waste from landfill and review the case for restrictions on sending other materials to landfill. <p>To improve the service to householders and businesses while delivering environmental benefits and supporting growth the review aims to:</p> <ul style="list-style-type: none"> • Support initiatives which reward and recognise people who do the right thing to reduce, reuse and recycle their waste; • Work with councils to increase the frequency and quality of rubbish collections and make it easier to recycle; • Encourage councils to sign the new Recycling & Waste Services Commitment, setting out the principles they will follow in delivering local waste services; • Protect civil liberties by stopping councils from criminalising householders for trivial bin offences, while ensuring that stronger powers exist to tackle those responsible for flytipping and serious waste crime; • Support councils and the waste industry in improving the collection of waste from smaller businesses; • Reduce the burden of regulation and enforcement on legitimate business, but target those who persistently break the law. 	
The Waste (England and Wales) Regulations 2011		The Waste Regulations transpose the revised WFD into national law and they seek to ensure that the waste hierarchy is implemented – prevention, preparing for reuse, recycling, other recovery and disposal.	
Waste (England and Wales) (Amendment) Regulations 2012		The amended regulations relate to the separate collection of waste. They amend the Waste (England and Wales) Regulations 2011 (above) by replacing regulation 13. From 1 January 2015, waste collection authorities must collect waste paper, metal, plastic and glass separately. The amendment also imposes a duty on waste collection authorities, from that date, when making arrangements for the collection of such waste, to ensure that those arrangements are by way of separate collection.	

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
Environmental Protection Act 1990		The Environmental Protection Act provides the structure and authority for waste management and the control of emissions into the environment.	
The Natural choice – Securing the Value of the Nation (2011, Defra)		<p>This document seeks to promote the valuing of the natural environment for the social and economic benefits it brings. Defra are seeking to mainstream the value of nature across our society by:</p> <ul style="list-style-type: none"> • facilitating greater local action to protect and improve nature; • creating a green economy, in which economic growth and the health of our natural resources sustain each other, and markets, business and Government better reflect the value of nature; • strengthening the connections between people and nature to the benefit of both; and • showing leadership in the European Union and internationally, to protect and enhance natural assets globally. 	
The Site Waste Management Plans Regulations (2008)	10, 11	<p>This Regulations require any construction project in England costing over £300k (be it for new build, maintenance, alteration or installation/removal of services such as sewerage, water) will need a Site Waste Management Plan (SWMP). A SWMP sets out how building materials, and resulting waste, is to be managed during the project.</p> <p>The SWMP’s purpose is to ensure that: building materials are managed efficiently; waste is disposed of legally; and that material recycling, reuse and recovery is maximised.</p> <p>It is the client’s responsibility to ensure a SWMP is written, followed, and updated during the project. Although the plan needs to be written at the construction design stage, it is a requirement of the SWMP regulations to maintain it during the whole project. Therefore, the client (or principal contractor) is also responsible for updating the plan with the site day to day activity. There will be two types of SWMP depending on the cost of the project:</p> <ol style="list-style-type: none"> 1. A project costing between £300 - £500k will follow a basic template 2. Anything over £500k will require a much greater level of detail. 	Material Assets, Waste

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
PPS10 Planning for Sustainable Waste Management ODPM (2011)	10, 11	Regional planning bodies and all planning authorities should, to the extent appropriate to their responsibilities, prepare and deliver planning strategies that (amongst other priorities) help deliver sustainable development through driving waste management up the waste hierarchy, addressing waste as a resource and looking to disposal as the last option, but one which must be adequately catered for.	Material Assets, Waste
Clean Neighbourhoods and Environment Act (2005)	10, 11	The Act provides local authorities, parish and community councils and the Environment Agency with more effective powers and tools to tackle poor environmental quality and anti-social behavior. In particular the Act includes sections on nuisance and abandoned vehicles, litter, graffiti, waste, noise and dogs. The section on waste covers flytipping, and enables local authorities to issue fixed penalty notices if waste is left out on the street.	Waste
Achieving a Better Quality of Life – Review of Progress Towards Sustainable Development DEFRA (2004)	5, 6, 7, 8, 9	15 Headline Indicators of sustainable development. 147 Quality of Life Counts indicators. Headline Indicators not being met in crime – robbery, air quality, road traffic and volumes of household waste.	Population and Human Health
Delivering a Sustainable Transport System Department for Transport (2008)	1, 2, 3, 5, 6, 7, 8, 9	<ul style="list-style-type: none"> • Support national economic competitiveness and growth, by delivering reliable and efficient transport networks; • Reduce transport’s emissions of carbon dioxide and other greenhouse gases, with the desired outcome of tackling climate change; • Contribute to better safety, security and health and longer life-expectancy by reducing the risk of death, injury, or illness arising from transport and by promoting travel modes that are beneficial to health; • Promote greater equality of opportunity for all citizens, with the desired outcome of achieving a fairer society; • Improve quality of life for transport users and non-transport users, and to promote a healthy natural environment. 	Population and Human Health, Transport

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
Low Carbon Transport – A Greener Future A Carbon Reduction Strategy for Transport Department for Transport (2009)	1, 3	<ul style="list-style-type: none"> • Supporting a shift to new technologies and fuels • Promoting lower carbon transport choices • Using market-based measures to encourage a shift to lower carbon transport 	Transport
Delivering Sustainable Low Carbon Travel: An Essential Guide for Local Authorities Department for Transport (2009)	1, 3	<ul style="list-style-type: none"> • Creating positive choices for travellers; • A holistic package of measures, which ‘lock-in’ the benefits; and • Local application tailored to local circumstances. 	Transport
Saving Lives: Our Healthier Nation White Paper (DoH 1999)	5, 6, 7, 8, 9	<p>Promotion of health and the prevention of ill-health. Four priority areas – Cancer, Coronary Heart Disease and Stroke, Accidents and Mental Health. Address the underlying causes of ill-health, such as poverty, wordlessness, poor educational achievement, poor housing.</p>	Population and Human Health
Culture at the Heart of Regeneration DCMS (2004)	5, 6, 7, 8, 9	<p>3 priority areas:</p> <ul style="list-style-type: none"> • Building partnerships across government, the private and voluntary sectors and culture and regeneration practitioners. • Supporting delivery by spreading good practice and measuring outcomes. • Strengthening evidence to find coherent and robust methods for measuring impacts. 	Population and Human Health

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
<p>Government Rural White Paper: Our Countryside – the Future – a Fair Deal for Rural England DETR (2000)</p>	<p>5, 6, 7, 8, 9</p>	<ul style="list-style-type: none"> • A living countryside, with thriving rural communities and access to high quality public services; • A working countryside, with a prosperous and diverse economy, giving high and stable levels of employment; • A protected countryside, in which the environment is sustained and enhanced, and which all can enjoy; • A vibrant countryside which can shape its own future and whose voice is heard by government at all levels. 	<p>Population and Human Health</p>
<p>Government Urban White Paper: Our Towns and Cities: the Future – Delivering an Urban Renaissance. DETR (2000)</p>	<p>5, 6, 7, 8, 9</p>	<ul style="list-style-type: none"> • People shaping the future of their community, supported by strong and truly representative local leaders; • People living in attractive, well kept towns and cities which use space and buildings well; • Good design and planning which makes it practical to live in a more environmentally sustainable way; • Towns and cities able to create and share prosperity; • Good quality services – health, education, housing, transport, finance, shopping, leisure and protection from crime. 	<p>Population and Human Health</p>
<p>The Air Quality Strategy for England, Scotland, Wales and Northern Ireland DETR (2000)</p>	<p>5, 6, 7, 8, 9</p>	<p>Government’s and the devolved administrations’ ultimate objective is to “render polluting emissions harmless”. A number of set objectives for protecting human health to be included in regulations for the purposes of Local Air Quality Management relating to concentrations of, amongst others, carbon monoxide, lead, nitrogen dioxide, ozone and particulates.</p>	<p>Air, Population and Human Health</p>

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
Our energy future – creating a low carbon economy. Energy White Paper DTI (2003)	1, 2, 3	<ul style="list-style-type: none"> • To put ourselves on a path to cut the UK’s carbon dioxide emissions (60% by 2050) – the main contributor to global warming; • To promote competitive markets in the UK and beyond, helping to raise the rate of sustainable economic growth and improve our productivity; • Stimulate new, more efficient sources of power generation; • Cut emissions from the transport sector; • Measures for promoting a shift to low-carbon vehicles and fuels are brought together in our 'Powering Future' Vehicles1 strategy, published in July 2002. • That strategy is complementary to this white paper: • Providing cleaner and better transport, set targets that within the next decade one in ten new cars sold in the UK will be low-carbon vehicles with emissions of 100 grammes per kilometre (g/km) CO2 or less, and that one in five new buses will also be low-carbon. 	Climatic Factors, Transport
UK Climate Change Programme DETR (2000)	1, 2	<p>Key priority of the programme is to ensure that the UK meets its legally binding target under the Kyoto Protocol to reduce its greenhouse gas emissions to 12.5% below 1990 level by 2008-2012.</p> <p>Programme also designed to move towards the domestic goal of a 20% reduction in carbon dioxide emissions below 1990 levels by 2010.</p>	Climatic Factors
Planning (Listed Buildings and Conservation Areas) Act 1990	12	<p>Sets out the legal requirements for the control of development and alterations that affect buildings, including those that are Listed or in Conservation Areas, and the framework by which control is maintained.</p> <p>Conservation of the built heritage. Protection of listed buildings and conservation areas.</p>	Cultural Heritage

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Ancient Monuments and Archaeological Areas Act 1979	12	Provides for nationally important archaeological sites to be statutorily protected as Scheduled Ancient Monuments.	Cultural Heritage
The Governments Statement on the Historic Environment for England (2010)	12	The value of the historic environment is recognised by all who have the power to shape it; that Government gives it proper recognition and that it is managed intelligently and in a way that fully realises its contribution to the economic, social and cultural life of the nation.	Cultural Heritage
The Historic Environment: A Force for Our Future DCMS/DLTR (2001)	12	The historic environment is protected and sustained for the benefit of our own and future generations.	Cultural Heritage
The National Trust Our Future – join in Our strategy to 2010 and beyond	12	<p>This strategy is focused on four issues - cultural heritage, our natural world, climate change and local food. It also identifies plans to tackle each issue.</p> <ul style="list-style-type: none"> • The Trust by means of the following statements pledges to address the identified issues: • We will enjoy the uniqueness, beauty and shared sense of pride and belonging that these wonderful places give us. • We will involve our visitors more closely with our conservation work. • We will partner organisations to foster and encourage our wildlife- both flora and fauna. 	Cultural Heritage
Environmental Quality in Spatial Planning. English Heritage et al (2005)	12	Planning authorities should consider more ambitious initiatives for the conservation, enhancement and better management of the environment and rural areas.	Cultural Heritage

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UK Sustainable Development Strategy (2005)	All	The revised objectives are: Living within environmental limits, Ensuring a strong, healthy and just society, Achieving a sustainable economy, Promoting good governance, Using sound science responsibly.	General
Sustainable Communities Plan ODPM (2003)	All	<p>The following are identified as key components of a sustainable community:</p> <ul style="list-style-type: none"> • A flourishing local economy to provide jobs and wealth; • Strong leadership to respond positively to change; • Effective engagement and participation by local people, groups and businesses, especially in the planning, design and long term stewardship of their community, and an active voluntary and community sector; • Sufficient size, scale and density, and the right layout to support basic amenities in the neighbourhood and minimise use of resources (including land); • Good public transport and other transport infrastructure both within the community and linking it to urban, rural and regional centres; • Buildings - both individually and collectively - that can meet different needs over time, and that minimise the use of resources; • A well-integrated mix of decent homes of different types and tenures to support a range of household sizes, ages and incomes; • Good quality local public services, including education and training opportunities, health care and community facilities, especially for leisure; • A diverse, vibrant and creative local culture, encouraging pride in the community and cohesion within it; A "sense of place"; • The right links with the wider regional, national and international community. 	General

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
Planning and Compulsory Purchase Act (2004)	All	This Act substantially reforming the town planning and compulsory purchase framework in the United Kingdom. It both amended and repealed significant parts of the existing planning and compulsory purchase legislation in force at the time, including the Town and Country Planning Act 1990, and introduced reforms such as the abolition of Local Plans and Structure Plans, and their replacement with Local Development Frameworks. It also sets out provision during the transition period.	General
The Town and Country Planning (Local Development) (England) Regulations 2004 as amended in 2008 (England)	All	It sets out the specific Local Development Documents which Local Planning Authorities in England are required to prepare and how that should be done. The amendment has an effect on local development schemes to specify that an adopted proposals map will be amended when a development plan document is approved.	General
National Planning Policy Framework (2012)	All	The NPPF sets out the Coalition Government's agenda for development and places a presumption in favour of development, which is sustainable.	General, Population and Human Health, Economic, Transport, Climate, Water and Environment
Natural Environment and Rural Communities Act (2006)	All	An Act to make provision about bodies concerned with the natural environment and rural communities; to make provision in connection with wildlife, sites of special scientific interest, National Parks and the Broads; to amend the law relating to rights of way; to make provision as to the Inland Waterways Amenity Advisory Council; to provide for flexible administrative arrangements in connection with functions relating to the environment and rural affairs and certain other functions; and for connected purposes.	General
Government Rural White Paper: Our Countryside – the Future	All	<ul style="list-style-type: none"> • A living countryside, with thriving rural communities and access to high quality public services. • A working countryside, with a prosperous and diverse economy, giving high and stable levels of employment. 	General

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
– a Fair Deal for Rural England DETR (2000)		<ul style="list-style-type: none"> • A protected countryside, in which the environment is sustained and enhanced, and which all can enjoy. • A vibrant countryside which can shape its own future and whose voice is heard by government at all levels. 	
Government Urban White Paper: Our Towns and Cities: the Future – Delivering an Urban Renaissance. DETR (2000)	All	<ul style="list-style-type: none"> • People shaping the future of their community, supported by strong and truly representative local leaders. • People living in attractive, well kept towns and cities which use space and buildings well. • Good design and planning which makes it practical to live in a more environmentally sustainable way. • Towns and cities able to create and share prosperity. • Good quality services – health, education, housing, transport, finance, shopping, leisure and protection from crime. 	General
An Environmental Vision Environment Agency (2000)	All	<p>The fundamental goals the Environment Agency want to help achieve are:</p> <ul style="list-style-type: none"> • A better quality of life - people will have peace of mind knowing that they live in a healthier environment, richer in wildlife and natural diversity – an environment that they will care for and can use, appreciate and enjoy; • An enhanced environment for wildlife; • Wildlife will thrive in urban and rural areas; • Habitats will improve in their extent and quality to sustainable levels for the benefit of all species; • Everyone will understand the importance of safeguarding biodiversity; • The environmental outcomes for which we are striving: • Cleaner air for everyone; • Improved and protected inland and coastal waters; • Restored, protected land with healthier soils; 	General

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
		<ul style="list-style-type: none"> • The changes we will seek: • A “greener” business world; • Wiser, sustainable uses of natural resources; • The risks and problems we will help manage, prevent and overcome: • Limiting and adapting to climate change; • Reducing flood risk. 	
Tackling health inequalities: A Programme for Action (2003)	5, 6, 7, 8, 9	This Programme for Action sets out plans to tackle health inequalities over the next three years. It establishes the foundations required to achieve the challenging national target for 2010 to reduce the gap in infant mortality across social groups, and raise life expectancy in the most disadvantaged areas faster than elsewhere.	Population and Human Health
Local			
Lincolnshire Minerals and Waste Development Framework Preferred Minerals and Waste Strategies, June 2010		<p>The preferred strategic objectives of the Minerals and Waste Core Strategy are as follows:</p> <ul style="list-style-type: none"> • Protect the environment and local communities from negative impacts of minerals and waste development, reduce residual impacts and deliver improvements where possible. Ensure new facilities include high standards of design and layout, good working practices and environmental protection measures; • Ensure that the minerals extracted in Lincolnshire supply the construction industry in line with national and regional guidance and contribute to local, regional and national requirements; • Ensure, where possible, that minerals are supplied from appropriately located and environmentally acceptable sources; • Aim to minimise greenhouse gas emissions by reducing the reliance on landfill; maximising opportunities for the re-use 	Waste

Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
		<p>and recycling of waste; encourage new technologies to maximise the renewable energy potential of waste as a resource; and promote the use of carbon capture technology;</p> <ul style="list-style-type: none"> • Identify adequate capacity for managing waste more sustainably; encourage the re-use of previously developed land; and promote self sufficiency in Lincolnshire to ensure waste is managed as near as possible to where it is produced; • Safeguard key mineral resources from sterilisation by other forms of development and ensure that where non-mineral development must take place within Minerals Safeguarding Areas full consideration is given to prior extraction of the mineral resource; • Ensure efficient use of primary minerals and encourage the production and use of good quality secondary and recycled aggregates; • Protect Lincolnshire’s high quality agricultural land (Grades 1, 2 and 3a) from development which would permanently reduce production levels; • At the cessation of mineral working, after-uses will be identified which best meet local circumstances. The enhancement of existing, and the creation of new biodiversity habitats, and green infrastructure will be key objectives; • Ensure the unique historical heritage of Lincolnshire, including its built, archaeological and landscape features are protected from the adverse impacts of mineral and waste developments; • Ensure that local sources of building stone are available to contribute towards the maintenance and enhancement of locally distinctive buildings. Stone for Lincoln Cathedral will be specifically protected. • Protect Lincolnshire’s coastal and fluvial high flood risk areas from inappropriate minerals and waste development and reduce flood risk through development opportunities wherever possible; • Protect and enhance the AONB, coastline and other nature conservation areas ranging from International (Natura 2000 sites) through to local designations; • Wherever practicable, vehicular movements will be minimised and alternative modes of transport will be promoted. 	

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
<p>Providing for Lincolnshire's Future – A Sustainability Framework <i>incorporating</i> Environmental Stewardship Strategy March 2005</p>	<p>All</p>	<p>The County Council has identified six ambitions that will drive its objectives and policy over the next few years. These are:</p> <ul style="list-style-type: none"> • Create economic prosperity • Enrich the quality of life • Provide the opportunity for people to achieve their full potential • Improve community engagement • Improve the transport infrastructure throughout the county • Provide community focused, cost effective services 	<p>General</p>
<p>4th Lincolnshire Local Transport Plan 2013/14 – 2022/23</p>	<p>1 , 2, 3, 5, 6, 7, 8, 9,10, 11</p>	<p>The aims of the LTP4 are as follows:</p> <ul style="list-style-type: none"> • to assist the sustainable economic growth of Lincolnshire, and the wider region, through improvements to the transport network • to improve access to employment and key services by widening travel choices, especially for those without access to a car • to make travel for all modes safer and, in particular, reduce the number and severity of road casualties • to maintain the transport system to standards which allow safe and efficient movement of people and goods • to protect and enhance the built and natural environment of the county by reducing the adverse impacts of traffic, including HGVs • to improve the quality of public spaces for residents, workers and visitors by creating a safe, attractive and accessible environment • to improve the quality of life and health of residents and visitors by encouraging active travel and tackling air quality and noise problems 	<p>Climatic Factors, Population and Human Health, Material Assets</p>

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
		<ul style="list-style-type: none"> • to minimise carbon emissions from transport across the county 	
Gypsy and Traveller Accommodation Needs Assessment (Sep 2007)	5, 6, 7, 8, 9	<p>This study assesses the amount and quality of accommodation provision for Gypsies and Travellers.</p> <p>Provides an estimate of future pitch need. Identifies a need of 22 to 26 extra pitches (permanent and transit) 2007-2012</p>	Population and Human Health
Central Lincolnshire Core Strategy Publication Version, 2013 (draft)	All	<p>The City of Lincoln, North Kesteven District and West Lindsey District in partnership with Lincolnshire County Council, have joined together to prepare a Core Strategy for their area which is collectively known as Central Lincolnshire.</p> <p>The five key themes of the Core Strategy are as follows:</p> <ul style="list-style-type: none"> • Sustainable Development • Tackling Climate Change, A Low Carbon Future • Growing Central Lincolnshire • Flourishing communities and places • A quality environment 	General, Population and Human Health, Economic, Transport, Air, Water
Lincolnshire County Council Natural Environment Strategy 2012 – 2018		<p>The Natural Environment Strategy forms part of the Council’s overarching Environmental Management Strategy and establishes a set of priorities to provide Council services, local communities and businesses and partner organisations with guidance on the approach the Council will take in working with the natural environment.</p> <p>LCC is aiming to achieve the following:</p>	

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
		<ul style="list-style-type: none"> • Lincolnshire’s countryside, coastline and towns are much richer in biodiversity by 2018 • The natural environment is better understood and is valued by residents, visitors and businesses for its intrinsic value and for its contribution to the local and regional economy and the health and amenity of local communities • Effective promotion of Lincolnshire’s natural environment, increases the county’s profile as a tourist destination, contributing to increasing visitor numbers and the amount of time they spend within the area • The natural environment of Lincolnshire is more resilient to climate change, the impacts of which are better understood • The Council’s approach to the natural environment is integrated across its different service areas and with that of its partners and local communities, making the most of existing resources and exploring to the full opportunities for attracting additional external resources and greater joint working between partner organisations. • Planning policy balances promotion of sustainable growth and economic regeneration with the protection and enhancement of the natural environment. This will be achieved by liaison with Local Planning Authorities and through the Council’s Minerals and Waste and Local Transport Planning Policy functions 	
Lincolnshire Rights of Way Improvement Plan 2007-2012	12	<p>This is a five year strategic report which sets out how Lincolnshire County Council intends to improve the management, provision and promotion of public rights of way in Lincolnshire.</p> <p>Our Vision for the Rights of Way Improvement Plan in Lincolnshire is:-“To have an integrated network of rights of way that is relevant for today’s needs, bringing added benefits to residents and visitors by supporting wider interests including sustainable transport, rural economy and tourism, health benefits and quality of life issues”.</p>	Cultural Heritage
The Lincolnshire Historic Landscape Characterisation	12	A Historic Landscape Characterisation project has been undertaken in Lincolnshire; this helps people to interpret the modern environment with reference to how it has developed and what is historically important about particular landscapes. The project identified 42 Historic Character Zones within 10 broad Historic Landscape Types	Cultural Heritage
Lincolnshire Sustainable Community Strategy 2009-2030 and Refresh	5, 6, 7, 8, 9	Represents a shared evidence base and vision for Lincolnshire, which is promoted by the Lincolnshire Assembly which consists of a range of local bodies such as Age Concern, local councils and development agencies. The strategy tackles issues that are important to Lincolnshire, including connections between communities, climate change flooding and road safety.	Population and Human Health

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
March 2010			
South Kesteven District Council Core Strategy 2010	All	<p>“A successful rural district supported by excellent social and transport infrastructure. Grantham will have developed as a key economic centre not only in Lincolnshire but also sub regionally.</p> <p>Stamford, Bourne and The Deepings will have equally developed their distinctive market town roles. Rural communities will have remained viable by achieving development that supports their needs.</p> <p>All of this will have been achieved in ways which ensures a good quality of life, health and well being for everyone as well as celebrating the distinctiveness of the districts countryside and heritage.”</p> <p>This will be achieved by:</p> <ul style="list-style-type: none"> • Creating the right balance of jobs, housing and infrastructure; • Ensuring that development is sustainable in terms of location, use and form; • Balancing the development needs of the District with the protection and enhancement of the • natural and built environment; • Addressing and mitigating any negative effects of development on the built and natural environment. • Working with partners and residents to develop a place where people really matter. <p>This vision seeks to reflect both the vision of the Local Strategic Partnership, as set out in the Community Plan for South Kesteven, and that of the Council’s Corporate Plan.</p>	General, Population and Human Health, Economic, Transport, Air, Water

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
South Kesteven District Council Site Allocations DPD 2011	All	Sets out objectives around housing, employment/commercial, supporting rural communities and green infrastructure. Notably, the plan sets out to make provision for at least 8,250 new homes within the district up to 2026.	General, Population and Human Health, Economic, Transport, Air, Water
The Boston Borough Local Plan (April 1999)	All	<p>The saved policies of the Boston Borough Local Plan has the following four principal functions:</p> <ul style="list-style-type: none"> • to translate the strategic policies and proposals of the Structure Plan, into a more specific form and to relate them directly to areas of land in the Borough; • to provide a detailed basis for development control decisions; • to provide certainty and a basis for co-ordinating public and private investment in the development and use of land; • to bring issues concerning the use of land before the public and to involve them in the plan-making process. 	General, Population and Human Health, Economic, Transport, Air, Water
Boston Borough Council Environmental Policy (March 2010) (Review due March 2013)	All	<p>The Council aims to improve the environmental quality of the borough by adhering to certain commitments:</p> <ul style="list-style-type: none"> • Reduce greenhouse gas emissions (principally carbon emissions) and manage climate risks and opportunities to combat climate change. It will seek to minimise energy use in every area of its work including transport, heating and lighting. It will continue to improve energy efficiency in all its buildings and to use and promote renewable energy; • Minimise water consumption in all its buildings and on its land. It will seek to implement measures to reduce pollution entering water and to recycle water whenever possible; • Promote sound waste management practices by minimising its own waste production through reducing materials consumed, re-using and recycling materials wherever possible; • Purchase products and services which do the least damage to the environment wherever possible; 	General, Population and Human Health, Economic, Water, Air, Water

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
		<ul style="list-style-type: none"> • Work with others to protect, enhance and extend the diversity of the natural environment and landscape character while encouraging community awareness and participation; • Protect and enhance the built environment to safeguard historic buildings and ancient monuments and • promote sustainable development that reflects the character of the area and reduces the area's carbon footprint; • Work with partners to promote a more sustainable transport system which integrates land use and all forms of travel to minimize environmental impact and reduces the need to travel, particularly by car; • Minimise and monitor air, water, noise and land pollution, accepting the principle that the polluter should pay; • Raise awareness and encourage participation in environmental issues throughout the whole community; • Work with businesses, partners and others in the local community to encourage good environmental practices. 	
Boston Borough Council Carbon Management Plan (December 2009)	1, 2, 3	The Carbon Management Plan commits the council to a target of reducing CO2 by 20% by March 2014 and underpins potential financial savings to the council of around £316,000	Climatic Factors, Air
Lincoln's Sustainable Community Strategy 2008- 2023 Vision Our City Our Future	5, 6, 7, 8, 9	<p>Sets out the Local Strategic Partnership's vision for Lincoln in 2030: "A well run, creative city of sustainable neighbourhoods and ambitious people, which is internationally renowned for its culture, economy, and special character. Lincoln is a great place to live and work that unlocks the potential in all people and all places and provides an enviable quality of life".</p> <p>The strategy sets out 5 key issues that need to be addressed to realise the vision:</p> <ol style="list-style-type: none"> 1. Our children and young people; 2. Our health; 3. Our economy; 4. Our environment; 	Population and Human Health, Economic

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
		5. Our safety	
The City of Lincoln Local Plan (August 1998) saved policies	All	<p>The City Council aims to:</p> <ul style="list-style-type: none"> • improve the quality of the local environment and the physical, social and economic health of the local community; • protect and reinforce Lincoln's special identity as development, change and renewal take place; • manage change with care, working towards a more sustainable, energy efficient city which offers improved quality of life and expanding opportunities for present and future generations. 	General, Population and Human Health, Economic, Transport, Air, Water
Lincoln Townscape Assessment	12	The city is divided up into a total of 108 distinct 'Character Areas', with each area representing a different 'place' in Lincoln. The LTA describes the inherited character of all parts of the City of Lincoln.	Cultural Heritage
City of Lincoln: A Climate Change Strategy (2005)	1,2,3, 5, 6, 7, 8, 9	<p>The main objectives of the Climate Change Strategy for Lincoln are to:</p> <ul style="list-style-type: none"> • Identify how the climate in Lincoln has changed already and forecast change for the future; • Address how the City of Lincoln Council can make changes to reduce the authority's impact on climate change and opportunities to adapt services in response to changing climate. 	Climatic Factors, Population and Human Health
Low Carbon Lincoln Plan 2012 – 2020 (Draft)	1, 2	The aim of the conference was to identify opportunities for a local carbon partnership and benefits that could derive from collaborative working to reduce the city's carbon footprint.	Climatic Factors

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
North Kesteven District Council Sustainable Community Strategy 2008-2018	All	<p>Represents the Local Strategic Partnership’s vision for North Kesteven which sets out two main objectives to realise the vision:</p> <ol style="list-style-type: none"> 1. Working in partnership to improve the quality of life, economic performance and environmental sustainability of North Kesteven; 2. Inspiring community participation in the delivery of public services and the achievement 	General, Population and Human Health, Economic
Draft Low Carbon NK Plan 2013-2020	1, 2	Low Carbon NK Aims – To reduce the levels of carbon emissions in the North Kesteven District. The plan aims to involve all sectors of the community in reducing carbon dioxide (CO2) emissions and prepare the District for the impacts of climate change and support opportunities for the local economy and community that result from climate change.	Climatic Factors
North Kesteven District Council Localism Plan March 2013	All	<p>The aim of the Localism Plan is to outline North Kesteven District Councils approach to the new Localism Act 2011, ensuring that the Council has put in place provision to fulfill its statutory requirements and a structure that will encourage the active empowerment of local communities.</p> <p>The council aims to equip communities with:</p> <ul style="list-style-type: none"> • the appropriate skills, knowledge and confidence to deliver, sustain and develop local facilities and services; • the ability to cater for the changing demands on local communities due to population changes, growth agenda, welfare reform and the overall economic situation; and • to empower communities to take control of their areas and use innovative models to improve their neighbourhood. 	General, Population and Human Health, Economic
The South Holland Local Plan (July 2006)	All	The saved policies of the South Holland Local Plan identify the Planning policies which will guide and control new development in the District until 2021, encouraging the economy to grow and allowing more housing to be built as part of a balanced strategy.	General, Population and Human Health, Economic, Transport, Air, Water

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
West Lindsey District Council Sustainable Community Strategy 2006-2016	5, 6, 7, 8, 9	<p>Represents the Local Strategic Partnership’s vision for West Lindsey: “The Vision is that West Lindsey is seen as a place where people want to live, work, invest and visit”.</p> <p><u>Healthy Communities</u></p> <ul style="list-style-type: none"> • Residents of West Lindsey Enjoy Good Physical and Mental Health, and Emotional Well-Being • West Lindsey Residents are informed about the ways in which they can improve and sustain their own Health and Well-Being. <p><u>Safer, Stronger Communities</u></p> <ul style="list-style-type: none"> • Empowered Communities, Engaged with Partner Agencies, Helping to shape Local Service Delivery • To improve the quality of life by promoting a culture of partnership with the local community to improve the local environment and reduce the incidents of Environmental Crime. • Residents Feel Safe • West Lindsey Provides Affordable, Sustainable Housing <p><u>Economic Development</u></p> <ul style="list-style-type: none"> • A positive Economic Environment for West Lindsey: • Business and employment are diverse • New businesses are attracted to the area • Existing businesses are growing • Economic activity is strong • High number of residents are economically active • There is a diverse skills-mix among local residents 	Population and Human Health, Economic

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Plan, Policy Programme	SEA Framework Objectives relevant to PPP	Aims and Objectives	SEA Topic
		<ul style="list-style-type: none"> • West Lindsey balances economic growth with principles of sustainability particularly environmental sustainability • West Lindsey is Accessible in the Broadest Sense 	
West Lindsey Local Plan First Review (June 2006) saved policies	All	<p>The aims of the local plan first review are as follows:</p> <ul style="list-style-type: none"> • To encourage the economic well-being of the District. • To encourage the social well-being of the District and reduce social inequalities. • To protect and enhance the natural and built environment. • To encourage and enable the economic regeneration, of the District’s towns and rural communities. • To meet the needs of the local communities in the District and protect the quality of life of local residents. 	General
East Lindsey District Council Draft Core Strategy (2012)	All	<p>The Core Strategy will guide growth and development in East Lindsey up to 2028. It will concentrate on a number of issues within the district over this time: Communities; Housing; Transport; Economy; Environment, Landscape and biodiversity; and Climate Change.</p> <p>The Core Strategy also aims to match up its vision with those other statutory and community plans, so that, through shared action, their common priorities can effectively be tackled.</p> <p>The East Lindsey Community Plan is underpinned by three key principles;</p> <ul style="list-style-type: none"> • Sustainability – achieving progress in a way that benefits everyone and does not harm the environment locally or globally, now or in the future. • Cohesion – creating mutual respect and appreciation of the similarities and differences that make people unique. • Engagement – involving the public, as individuals or as a community, in policy and service decisions. 	General, Population and Human Health, Economic, Transport, Air, Water

10 Appendix B - Baseline Data

Set out below is the detailed baseline data review, that has been conducted to inform the SEA of the JMWMS.

10.1 Climatic Factors

10.1.1 Relevance to JMWMS

Waste management decisions have the potential to impact on Lincolnshire's Greenhouse Gas (GHG) emission levels, in particular through the operation of waste management processes which have a significant transportation element. This strategy promotes kerbside residual, recycling and garden waste collections, both of which rely on regular collections.

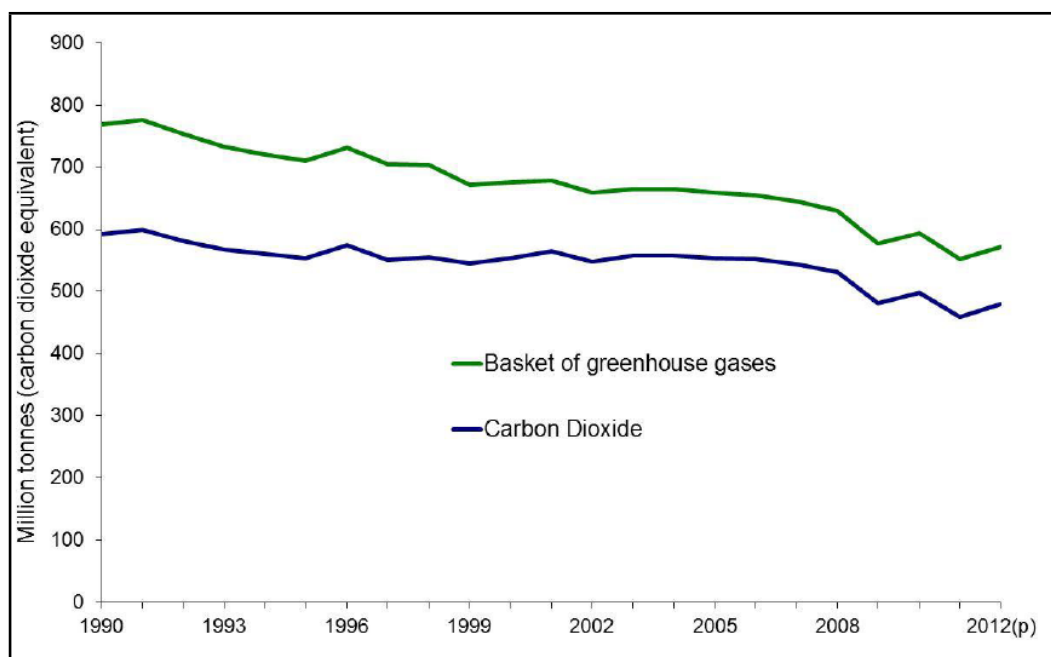
10.1.2 Overview - Greenhouse Gas (GHG) Emission Levels

According to statistics² released by the Department of Energy and Climate Change, in 2012, UK emissions of the six GHGs covered by the Kyoto Protocol were provisionally estimated to be 571.6 million tonnes (Mt) carbon dioxide equivalent (MtCO₂e). This represents a 3.5% increase on the 2011 figure of 552.6 MtCO₂e. The most abundant GHG is carbon dioxide (CO₂), which accounted for about 83% of the total UK greenhouse gas emissions in 2011, the latest year for which final results are available. In 2012, UK net emissions of CO₂ were provisionally estimated to be 479.1 Mt. This was 4.5% higher than the 2011 figure of 458.6 Mt. Figure 10-1 shows UK emissions of GHGs and CO₂ since 1990. Overall levels of the six Kyoto Protocol GHGs have decreased from 1990 levels.

Provisional estimates show increases in emissions of 5.5% (9.9Mt) from the energy supply sector, 11.8% (7.8 Mt) from the residential sector, and 4.8% (3.6Mt) from the business sector. Emissions from the transport sector were down by 1.2% (1.4Mt) from 2011.

Figure 10-1 UK emissions of greenhouse gases, 1990-2013 (provisional)

² . 2012 UK Greenhouse Gas Emissions, Provisional Figures and 2011 UK Greenhouse Gas Emissions.
https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/193414/280313_ghg_national_statistics_release_2012_provisional.pdf [Accessed 19.07.2013]



Source

ce: DECC, 2013. (Statistical Release - 2012 UK Greenhouse Gas Emissions, Provisional Figures and 2011 UK Greenhouse Gas Emissions Final Figures by Fuel Type and End-User).

On a regional scale, the latest available data³ released for 2011 shows that total end user CO₂ emissions in the East Midlands region is 34 Mt, with 7.4t per capita. This represents a significant decrease in the region when compared to figures produced in 2005, which showed 40 Mt total emissions and 9.3 t per capita.

In comparison with regional figures, Lincolnshire's CO₂ emission levels are lower; producing 4.7 Mt total emissions at 6.5 t per capita in 2011. In line with regional figures, CO₂ emission levels have reduced from 2005 levels of 5.4 Mt total emissions and 8.0t per capita.⁴

10.1.3 Lincolnshire's capabilities to reduce emissions

In Lincolnshire there is significant potential to generate energy from renewable sources, particularly using wind, the tides and biomass. Since 2004, the generation of energy from renewable sources within the county has been increasing steadily. There is a significant number of wind turbines with more planned. However, LCC is questioning this as an approach across Lincolnshire as, although supportive of alternative energy supplies for the future, Councillors question the effectiveness of wind farm technology, and are concerned about the visual impact for residents and on tourism in the county.⁵

LCC has been proactive in seeking to reduce emissions through the use of biomass, which is carbon neutral, to produce energy. The Lincolnshire Green Heat Scheme (LIGHT) works on the principle that burning biomass is 'Carbon Neutral' and does not contribute to global warming and can provide a cost effective way of reducing

³Local Authority CO₂ emissions estimates 2011.

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/211878/110713_Local_CO2_NS_Annex_B.pdf [Accessed 19.07.2013]

⁴ Local and regional CO₂ emissions estimates for 2005-2011: full dataset .

<https://www.gov.uk/government/publications/local-authority-emissions-estimates> [Accessed 19.07.2013]

⁵ <http://www.lincolnshire.gov.uk/local-democracy/council-news/what-do-you-think-about-wind-farms/114432.article> [Accessed 22.07.13]

CO₂ emissions. It is renewable because trees and crops are replanted after they are harvested. The energy in one tonne of wood-fuel is equivalent to over 300 litres of oil (65 gallons) or 3500 units (kWh) of gas or electricity.⁶

In 2011, 4,677.7 kilo tonnes (4.7 Mt) of CO₂ emissions were released in Lincolnshire, which represented approximately a 4% decrease since 2009. In 2011, the total emissions in kt CO₂ per sector were as followsⁱ:

- 1,416.8 kt from domestic sources
- 1,654.2 kt from industrial and commercial sources
- 1,477.4 kt from road transport.

Table 10-1 shows emissions for each local authority in the Lincolnshire between 2009 and 2011.

Table 10-1 CO₂ Emission for Local Authorities in Lincolnshire

Authority	Year	Industry and Commercial kt CO ₂	Domestic kt CO ₂	Road Transport kt CO ₂	Total kt CO ₂	Population ('000s mid-year estimate)	Per Capita Emissions t
Boston Borough Council	2009	173.7	128.1	126.9	434.3	63.4	6.8
	2010	175.3	137.8	126.7	445.2	64.5	6.9
	2011	153.0	121.8	125.7	406.1	64.6	6.3
East Lindsey District Council	2009	306.9	309.8	310.4	950.9	137.1	6.9
	2010	320.6	334.5	306.5	982.4	137.3	7.2
	2011	299.2	293.9	296.0	910.0	136.7	6.7
Lincoln City Council	2009	215.6	175.1	65.1	457.3	90.8	5.0
	2010	223.6	189.1	64.4	478.6	92.2	5.2
	2011	205.5	167.3	62.0	436.2	93.1	4.7
North Kesteven District Council	2009	218.2	217.7	233.0	697.2	106.5	6.5
	2010	224.3	235.8	231.4	717.4	107.5	6.7
	2011	212.3	209.0	229.2	676.1	108.5	6.2
South Holland District Council	2009	241.3	176.2	205.7	634.0	87.0	7.3
	2010	241.7	188.7	208.4	649.1	87.9	7.4
	2011	221.2	167.5	204.1	603.6	88.4	6.8

⁶ <http://www.lincolnshire.gov.uk/residents/environment-and-planning/sustainability/environmental-policy/case-studies/biomass-%28light%29/107002.article?tab=downloads> [Accessed 22.07.13]

Authority	Year	Industry and Commercial kt CO ₂	Domestic kt CO ₂	Road Transport kt CO ₂	Total kt CO ₂	Population ('000s mid-year estimate)	Per Capita Emissions t
South Kesteven District Council	2009	397.3	272.5	328.2	1030.3	132.2	7.8
	2010	413.5	294.9	333.2	1072.2	133.1	8.1
	2011	389.1	261.0	330.1	1011.1	134.1	7.5
West Lindsey District Council	2009	180.7	205.7	232.3	654.5	88.6	7.4
	2010	185.4	224.5	230.8	674.0	89.4	7.5
	2011	174.0	296.4	230.3	634.5	89.4	7.1

Total CO₂ emissions were highest in the South Kesteven District, which accounted for 1011.1kt CO₂, and the lowest emissions were in Boston Borough with 406.1kt CO₂. All local authorities showed reductions in their total emissions between 2009 and 2011.

The highest per capita emission in 2011 was 7.5t in the South Kesteven District and the lowest per capita emissions was 4.7t in Lincoln City.

10.1.4 *Climate Change Implication for Lincolnshire*

Climate change is predicted to result in more extreme weather events, increased temperatures and rises in the sea level which will be accompanied by economic, social and environmental impacts. Some of the potential implications of climate change for Lincolnshire are discussed in the following sections and will need to be taken into consideration within the JMWMS.

10.1.5 *Climate Change and Agriculture*

Lincolnshire has some of the highest quality agricultural land in the UK and is the most productive county for wheat, oil seed rape, cereals, poultry, and horticulture especially field vegetables (leeks, broccoli, cauliflower and cabbages) and bulbs. Lincolnshire has 39% of land which is at or below sea level putting many coastal areas at risk of coastal flooding. Much of this land is grade 1 arable farming land and any salt intrusion could take up to 40 years for the land to recover. It is therefore very important that LCC addresses and prepares for a changing climate.

The increased coastal erosion and flooding that is likely to be associated with climate change has the potential to decrease the quality and availability of agricultural land in the region, with the potential for impacts to the economy and food supply.

It is likely that some crops could no longer be grown in the area. However, there may be opportunities to grow different crops and the longer growing seasons may lead to higher yields and more locally grown produce throughout the year. There may be more opportunities for vineyards and for growing lavender, sweetcorn, grain maize, sunflowers and navy beans. Additionally there may be an increased potential for

planting crops for energy production. These changes in crops however will also have implications for biodiversity.⁷

Additionally, climate change is likely to result in an increased threat of pests and new crop pests such as the Colorado Beetle and the European Corn Borer.

10.1.6 *Climate Change, Transport and Infrastructure*

The East Midlands and Lincolnshire contain a number of important national transport links and ports which could be affected by climate change. Built structures such as bridges, promenades, pylons, roads and railway lines will become more vulnerable to higher winds, flooding, storm events and changes in soil moisture.

Some roads, particularly those near to the coastline and rivers will be particularly susceptible to an increased risk of flooding. Consideration will need to be given to the need to develop the capability of the carriageway to cope with excess water given the likely increase in the frequency of intense rainfall events. Railways will also be susceptible to flooding.

Temperature changes also have the potential to affect roads, by causing more frequent melting of the asphalt road surface, and railways by increasing the risk of buckling on the rail tracks.

Additionally, climate change has the potential to affect emergency services as a result of extreme weather events.

10.1.7 *Key Issues – Climatic Factors*

Set out below in Table 10-2 are the key issues that can be identified from the baseline data collected in terms of climatic factors.

Table 10-2 Key Issues: Climatic Factors

Key Issues – Climatic Factors
CO ₂ emissions are lower in Lincolnshire than in the East Midlands region in 2011. This figure has reduced from levels recorded in 2005.
Renewable energy proposals have increased although the visual impact of these measures is being questioned.
Climate change could have potential impacts on Lincolnshire's coastal areas, agricultural areas and transport infrastructure.

10.2 **Air Quality**

10.2.1 *Relevance to JMWMS*

The JMWMS will need to consider any impacts of operational processes on air quality, particularly due to the nature of waste collections which rely on vehicles and the transport network. Furthermore, the effects of composting may have an impact on air quality which will need to be assessed accordingly.

10.2.2 *Air Quality Management*

⁷ East midlands Regional Climate Change Partnership 2000

As part of the National Air Quality Strategy (NAQS), all local authorities obliged to establish air quality levels in their area that meet national air quality objectives. These are set by concentrations of airborne pollutants considered to be acceptable for health and the environment. If an area does not meet these objectives Air Quality Management Areas (AQMA) are declared. The authority must then draw up an Air Quality Action Plan to set objectives for improving air quality.

Although air quality across the county is generally considered to be good there are 6 AQMAs in Lincolnshire, declared primarily as a result of pollution caused by traffic emissions. Lincoln City Council has 2 AQMAs, Boston Borough Council has 2 AQMAs and South Kesteven District Council has 2 AQMAs. These are detailed in Table 10-3 below.

Table 10-3 Lincolnshire AQMAs

Local Authority	Pollutants Declared	Description
Lincoln City Council	Lincoln AQMA	The area generally follows the major road network in the City Centre and arterial routes and is primarily due to road traffic emissions.
	Lincoln PM ₁₀ AQMA - Nitrogen Dioxide (NO ₂)	An area encompassing the whole borough.
Boston Borough	Boston AQMA - Sulphur dioxide (SO ₂)	The AQMA follows the A16 trunk road through the centre of town encompassing properties on either side. It extends from Queen Street roundabout through to the intersection of John Adams Way and Main Ridge East.
	Bargate Bridge AQMA - Nitrogen dioxide NO ₂	An area from Bargate roundabout extending east in to the top part of Spilsby Road and incorporating the junctions of Freiston Road and Willoughby Road, Boston.
South Kesteven DC	Nitrogen dioxide NO ₂	Area incorporating Brooke St. and Manthorpe Rd, Grantham.
	Nitrogen dioxide NO ₂ and Particulate Matter PM ₁₀	No.1 - An area of land including residential properties along Wharf Road, Grantham, Lincolnshire. No.2 - An area of land including residential properties of Meres Road Grantham, Lincolnshire adjacent to the A1. No.3 - An area of land including residential properties of Welwyn Close, Rosemary Crescent and Denton Avenue, Grantham, Lincolnshire, adjacent to the A1. No.4 - An area of land including Rushmore Lodge at the junction of St. Paul's Street, Brazenose Lane and East Street, Stamford, Lincolnshire.

10.2.3 Key Issues – Air Quality

Set out below in Table 10-4 are the key issues that can be identified from the baseline data collected in terms of air quality.

Table 10-4 Key Issues: Air Quality

Key Issues – Air Quality
Air quality is considered to be good, although there are 6 AQMA's within the county, established primarily as a result of pollution from traffic emissions.

10.3 Geology and Soils

10.3.1 Relevance to JMWMS

Measures included within the JMWMS include proposals for the continued collection of green waste and composting. This has the potential to affect soil quality.

10.3.2 Overview

Soils and geology play an important part in determining the environmental character of an area. The nature and alignment of the rocks has a major influence on the landform. Rocks provide the parent material from which the soils are created and, through their constitution and chemistry, they influence the rate at which soils are formed. Soil chemistry and structure strongly influence the type of vegetation, which occurs naturally in an area.

10.3.3 Geology and Geomorphology

Lincolnshire’s bedrocks form a simple pattern of north-south stripes at the surface. There are older Triassic rocks in the west, overlain progressively by marine Jurassic rocks and the younger Cretaceous rocks in the east. At the surface they have been subjected to weathering and erosion under a range of climates including glacial and periglacial during the last 2 million years.

The superficial geology of the county is blanketed with a covering of Quarternary superficial deposits that formed within the last two million years. The Quarternary deposits includes glacial and fluvioglacial deposits along with younger Flandrian silts, peat, sands and alluvium that cover the Fenlands, the coastal plains east of the Wolds, much of the Humber coast and the Isle of Axholme.

10.3.4 Soils

Lincolnshire contains a wide variety of soils including alluvium (clay, silt and sand) along coastal regions, Till (Diamicton), River Terrace deposits (Sand and Gravel), blown sand, peat, glacial sand and gravel.

Lincolnshire soils vary in thickness from a few centimetres to over a metre in response to the underlying geology, location in the landscape and agricultural practices. The thinnest soils tend to occur over chalk and limestone escarpments and on valley side, with the deepest soils in the Fenlands.

10.3.5 Key Issues – Geology and Soils

Set out below in Table 10-5 are the key issues that can be identified from the baseline data collected in terms of geology and soils.

Table 10-5 Key Issues: Geology and Soils

Key Issues – Geology and Soils
Lincolnshire contains a wide variety of soils that are used to support an important agricultural sector.

10.4 Population

10.4.1 Relevance to JMWMS

The JMWMS will need to consider the needs of the existing and future population of Lincolnshire, particularly in relation to promoting waste awareness. Waste management decisions may have potential impacts on transport networks and on the local economy.

Understanding local demographic trends is important in planning for the future of an area as it enables local authorities to predict the changing needs of the population and address them.

10.4.2 Population Structure and Statistics

Data released from the Office of National Statistics (ONS) 2012 mid-year population estimates (based on the 2011 census of population for England and Wales) is as presented below in Table 10-6.

DRAFT

Table 10-6 2012 Mid-Year Lincolnshire Population

Area	Mid-2012	Mid-2011	Mid-2002	Change 2011-2012		Change 2002-2012		Area Sq km	Density Persons per sq km, 2012
				Persons	%	Persons	%		
Lincolnshire CC	718,800	714,800	655,600	4,000	0.6	63,200	9.6	5,921	121
Boston	64,800	64,600	56,400	200	0.3	8,400	14.9	362	179
East Lindsey	136,600	136,700	132,100	-100	-0.1	4,500	3.4	1,760	78
Lincoln	94,600	93,100	85,700	1,500	1.6	8,900	10.4	36	2,650
North Kesteven	109,300	108,500	96,900	800	0.7	12,400	12.8	922	118
South Holland	88,500	88,400	77,900	100	0.1	10,600	13.6	742	119
South Kesteven	135,000	134,100	125,500	900	0.7	9,500	7.6	943	143
West Lindsey	90,000	89,400	81,100	600	0.7	8,900	11.0	1,156	78
England & Wales	56,567,800	56,170,900	52,602,100	396,900	0.7	3,965,700	7.5	151,013	375

The 2012 mid-year population estimates released by ONS show a continued increase in Lincolnshire's population. They show the county's total population increased by 63,200 people in ten years, to approximately 718,800 in 2012. This is a 9.6% rise and is higher than the percentage increase of 7.5% for England and Wales over the same period.

Across the districts, East Lindsey has shown the least rate of population growth at 3.4%, whereas Boston has the highest rate of population growth at 14.9% between the period of 2002 and 2012. A breakdown of the population data by age group and ethnicity shows that Lincolnshire continues to have an ageing population and is less ethnically diverse in comparison with the national figures. In terms of country of birth, Lincolnshire has a higher proportion of residents who were born in the EU than in England and Wales. In addition, Lincolnshire also has a higher proportion of UK born residents than in England and Wales. In terms of ethnicity, Lincolnshire has become more diverse with the non-white population making up 2.4% of the total population in 2011 compared to 1.4% in 2001. However this proportion is still small when compared with a national non-white population of 14%. Single person households aged over 65 make up nearly 14% of all households compared to 12% nationally. However, this is down 1% on 2001. Conversely the number of people stating that their day to day activities are limited due to their health has increased by 1% from 2001 to 20%. Nationally 18% of the population reported that this was the case.⁸

10.4.3 *Deprivation*

The Index of Multiple Deprivation (IMD), published by the Department for Communities and Local Government (DCLG), is a national dataset of deprivation indicators, chosen to cover a range of economic, social and housing issues, into a single deprivation score. They assess deprivation over small geographical areas that enable the extent and distribution of deprivation to be compared and monitored over time.

When comparing IMD data released in 2007 and 2010⁹, the following can be noted:

- all Lincolnshire's district council areas are ranked as being slightly more deprived in 2010 than in 2007; and,
- 12% of Lincolnshire's population live in areas categorised within England's 20% most deprived areas, an increase of 1% on 2007.

The IMD uses geographical areas called Super Output Areas (SOAs) to facilitate the calculation of the IMD, by using a set of areas of consistent size that do not change boundaries. Lower Super Output Areas (LSOAs) typically contain four to six SOAs.

The most deprived Lower Super Output Area (LSOA) in the county is in Lincoln and the least deprived is in North Kesteven at RAF Cranwell. From the 2010 figures, it can be seen that Lincolnshire now has 5 additional LSOAs that are ranked in England's top 20% most deprived areas, two in both East Lindsey and Lincoln, and one in West Lindsey.

10.4.4 *Economy*

Since April 2010, all unitary authorities and county councils have a statutory duty to carry out an assessment of the economic conditions of their area through a Local Economic Assessment (LEA). This is intended to provide local authorities and other stakeholders with a robust analysis of the local economy which can help shape actions to improve the local economy.

Lincolnshire is one of the largest and most sparsely populated areas of England and presents a distinctive range of challenges for organisations concerned with the socio-economic well-being of a low wage area experiencing sustained population growth.

The Economic and Development Strategy 2008-2010 identified five distinct economic and geographical areas each with their own characteristics within Lincolnshire and classified the areas as follows:

⁸ <http://www.research-lincs.org.uk/2011-census.aspx> [Accessed 26.06.2013]

⁹ <http://www.research-lincs.org.uk/Deprivation-and-Poverty.aspx>

- The expanding Greater Lincoln area - including Gainsborough - which is increasingly prosperous and is consolidating as a regional centre.
- The coastal strip - has significant levels of deprivation due to peripherality and seasonal employment.
- The Fenland area of the south east - has a strong and successful food and horticultural identity.
- The A1 corridor - is experiencing private sector led economic growth and still has significant untapped potential.
- The large central and traditional rural area - has a network of market towns in a historic agricultural setting.

Each area presents a different set of issues, and with the exception of greater Lincoln, the most distinctive characteristic is the commonality of rural issues.

Slow and low economic growth: Gross Value Added (GVA) is a very broad barometer of economic vitality and is used locally, regionally and internationally to make comparisons between areas. The consequences of a low-wage economy are a low GVA. Lincolnshire has one of the lowest GVAs in the country despite the growth in the local economy over the past few years.

In 2011, an LEA was undertaken which described Lincolnshire in terms of its economic profile and examined local data. This study developed thirteen economic zones to enable data analysis at a more local level and reflect areas where similar issues and opportunities are faced by the local population.

The LEA stated that GVA figures estimates the value of the county's economy at over £10bn for the first time. This however does not improve the economic performance of the county as it still remains one of the weakest and is generally regarded as a low skilled, low wage economy. Lincolnshire's economy is set to continue growing, however, without intervention, the positive projections will not be enough to move it closer to the national or regional rates of economic activity.¹⁰

The economic downturn had an impact on Lincolnshire's economy although less than was experienced in other parts of the country. A number of economic indicators highlight the resilient qualities of the local economy. An example is the county's unemployment rate which fell from 3.8% in January 2010 to 3.2% during April 2011, and has remained below both the regional and national rates. The overall employment rate in the county (72.7%) has remained above that of regional and national rates (71.2% and 70.3% respectively). Recruitment activities appear to have also recovered for some sectors since the economic downturn.

Despite the positive signs of economic recovery, many businesses and organisations in Lincolnshire continue to report difficult trading conditions with some operating at less than full capacity during 2010. The number of businesses per 10,000 of the population (400) is lower than the national rate of 420. The sparse nature of the county results in an average of only five businesses per km² compared to 17 nationally.

¹⁰ <http://www.research-lincs.org.uk/UI/Documents/Local%20Economic%20Assessment.pdf>
[Accessed 26.07.13]

There is also a clear rural/urban divide in the county on some issues including, transport, information and communications technology, levels of crime, skills and wages, and how communities access services.

The number of people of working age (16 to 64) in Lincolnshire during the mid-year 2012 population estimate was 441,500 and the percentage of claimants in working age population is 10.7%.¹¹ This figure is lower than the regional and national rates of 10.9% and 11.6% respectively¹². However, the International Labour Organisation’s (ILO) wider measure of unemployment shows that 6% of the county’s working age population are out of work.

10.4.5 Key Issues – Population

Set out below in Table 10-7 are the key issues that can be identified from the baseline data collected in terms of population and human health.

Table 10-7 Key Issues: Population

Key Issues – Population
The population of Lincolnshire has increased by 63,200 people in the ten year period to 2012. A breakdown of this data shows that the county continues to have an ageing population and is less diverse than other areas.
Deprivation across Lincolnshire has worsened slightly from 2007 to 2010.
The economy of Lincolnshire has not been affected in the economic downturn to the extent that has occurred nationally. However, many businesses have reported difficult trading conditions.

10.5 Material Assets

10.5.1 Relevance to JMWMS

Waste management decisions may impact on material assets, related to transport and social infrastructure, such as hospitals, residential areas etc. How these facilities deal with their waste has a significant bearing on the success of the JMWMS.

10.5.2 Overview

For the purpose of this SEA ‘material assets’ refers to the critical infrastructure, waste management facilities and housing within the borough that could be potentially affected by the implementation of the JMWMS.

10.5.3 Critical Infrastructure

Critical infrastructure comprises ‘those facilities, systems, sites and networks necessary for the functioning of the country and the delivery of the essential services upon which daily life depends’.¹³ The implementation of the JMWMS measures has the potential to disrupt critical infrastructure such as utilities (e.g. clean water, electricity supply, telecoms network), access to community care facilities (hospitals or health centres). The JMWMS will seek to manage these risks to critical infrastructure and material assets within Lincolnshire. If the JMWMS requires the building of new infrastructure, it will also need to consider access to and use of critical infrastructure.

10.5.4 Transport

¹¹ <http://www.research-lincs.org.uk/Local-Economic-Assessment.aspx#data> [Accessed 26.07.13]

¹² <http://www.nomisweb.co.uk/reports/lmp/la/1941962809/report.aspx#tabwab> [Accessed 26.07.13]

¹³ <http://www.cpni.gov.uk/about/cni/> [Accessed 30.07.13]

Lincolnshire is a predominantly rural county and as a consequence of its size, the highway network is extensive totalling about 8,905 km (5,534 miles). LCC is responsible for the 5th largest road network in England covering 5,500 miles with 85% classified as rural, 3,030 miles of footway and over 3,500 highways structures.¹⁴ LCC is the highway authority for all public roads except trunk roads. Within this network there is no motorway and just 41m of dual carriageway of which the A1 and the recently upgraded A46 between Newark and Lincoln form the majority.

Figure 10-2 Lincolnshire's Transport Network



Traffic counts¹⁵ for Lincolnshire, taken by the Department for Transport, show that in 2012 vehicles travelled 2,370,641 thousand miles which is broken down as follows:

¹⁴ <http://www.lincolnshire.gov.uk/residents/transport-travel-and-roads/highway-maintenance/lincolnshire-county-council-highways-alliance> [Accessed 29.07.13]

- Motorcycles – 19,530
- Cars – 1,788,669
- Buses and Coaches – 14,560
- Light Goods Vehicles – 333,317
- HGV's – 214,599

It is apparent that the predominant mode of transport in the county is the car with the proportion of HGV's (commonly used to transport waste) making up 9% of the total thousand miles.

Lincolnshire's recently published fourth Local Transport Plan (LTP4)¹⁶ identifies the current issues around transport in the county. The LTP4 recognises that there is increasing demand on the road network and at the same time concerns around the environmental impact of transport continue to grow. Three key challenges have been identified which are as follows:

- Supporting growth and the local economy
- Improving access to employment, training and key services, and
- Contributing to a healthier community.

The LTP4 recognises that increasing development in the county will put pressure on transport networks. LCC, as highways authority, is working alongside its constituent district councils on preparing appropriate Infrastructure Development Plans (IDPs) in support of the Local Plans. However, within the current economic climate, delivering appropriate transport infrastructure will be challenging and a range of funding sources will need to be explored.

The LTP4 outlines LCC's commitment to reducing the environmental impact of transport. LCC has ongoing initiatives around reducing carbon emissions, using alternative fuels and reducing the impact of traffic through reduction of speeds and re-routing traffic.

10.5.5 *Public Rights of Way*

There are no national trails within Lincolnshire. However, the Viking Way is a long distance footpath which runs for 235km from the Humber Bridge at Barton-upon-Humber to Oakham in Rutland. There are a number of national cycle routes within the county including national route 1 which runs through Boston, Lincolnshire, and Market Rasen. There are other schemes including a cycleway from Newark to Lincoln and a town centre scheme in Grantham. There is a network of over 4000km of public rights of way in Lincolnshire, including public footpaths, bridleways and byways.

10.5.6 *Waste*

Lincolnshire disposes of a range of waste streams: municipal waste; waste generated by industry, commerce and business; waste from construction and demolition activities; and other more specific waste types such as hazardous waste, agricultural waste, waste water and sewage sludge.¹⁷ Over 3 million tonnes of waste is produced each year and a large percentage of this ends up in landfill.¹⁸ The total municipal solid waste (MSW) arisings in Lincolnshire between 2010 and 2011 was 355,609 tonnes. Data shows that the average rate of change yearly between 2000/01 to 2010/11 has remained at 1%. Municipal waste arisings in the County is currently forecasted to grow at a rate of 1.7% per annum from the 2010/11 figure of 355,609 tonnes over the next 20 years until 2030/11. It is also assumed that that 55% of the total arisings is recycled and composted (with a ratio of 32% and

¹⁵ <http://www.dft.gov.uk/traffic-counts/area.php?region=East+Midlands&la=Lincolnshire>

¹⁶ <http://www.lincolnshire.gov.uk/residents/transport-travel-and-roads/transport-planning-and-development-control/local-transport-plan/4th-lincolnshire-local-transport-plan/102070.article?tab=downloads>

¹⁷ Preferred Minerals and Waste Strategies, 2010. [Lincolnshire Council]

¹⁸ <http://www.lincolnshire.gov.uk/recycle-for-lincolnshire/waste-local-plan/> [Accessed 30.07.13]

23% of total arisings, respectively), and that by 2013/14 150,000 tonnes per annum is recovered via the energy from waste facility at North Hykeham.¹⁹

Lincolnshire is in the process of producing their Minerals and Waste Development Framework, which is a new set of documents to replace the existing Mineral and Waste plans and will address future waste activities in the County.²⁰

Waste collection and disposal results in a substantial number of lorry movements into and out of the County to transport waste to recycling facilities, energy from waste facilities or landfill sites. Regular collections are required from households and with the number of households increasing and the amount of waste increasing; there will inevitably be an impact on transport.

It is essential to ensure that the JMWMS considers such issues regarding the increasing number of households and corresponding increases in waste generation and waste transportation to enable appropriate waste management across the County.

10.5.7 *Housing and Homes*

The issues of affordable housing will be addressed by the Local Planning Authorities, Local Development Framework Core Strategies and Site Allocations Development Plan Documents (DPD). Within these DPDs, new housing locations are identified as will new employment sites, it is essential that the JMWMS is integrated with the LDFs to ensure that development is located in areas that are not negatively impacted by the implementation of the strategy.

Lincolnshire is a growing county in terms of provision of new homes. The town of Grantham is a designated growth point, and here alone it is anticipated that 7,500 homes and 4,000 jobs will be created by 2026. Furthermore, within central Lincolnshire (City of Lincoln, North Kesteven and West Lindsey), the draft Core Strategy sets out plans to build 42,800 homes by 2031.

The JMWMS must ensure access to services is a high priority for new housing development within Lincolnshire, the SEA process provides an opportunity to ensure that these issues are fully addressed at the strategy options/alternatives appraisal stage.

10.5.8 *Agriculture*

The East Midlands is a very productive area for agriculture and contains a significant percentage of the total national resource of the best and most versatile agricultural land. The proportion of Grade 1, 2 and 3a agricultural land, i.e. the best and most versatile land, in the East Midlands is 47% compared to 39% across England. The East Midlands also contains a significant percentage (34%) of the total national resource of Grade 1 agricultural land. Within the region, over 1.2 million hectares of land is in agricultural use and the industry employs over 39,000 people across some 18,500 farms. Farming is a major industry in Lincolnshire, with a farmed area of 484,220ha, a total of 3,680 holdings and a labour force of 8,490 in 2010.²¹ Some of the highest grade agricultural land in the country is found in the south and east of the county, with 44% of the agricultural land in Lincolnshire being Grade 1 or Grade 2.

Lincolnshire is the largest producer of wheat in the UK; contributes over 10% of total national wheat production and over 50% to regional production. The split in produce on Lincolnshire's farms is shown in Table 10-8 below.

¹⁹ Lincolnshire County Council, Waste Needs Assessment, November 2012.

²⁰ <http://www.lincolnshire.gov.uk/residents/environment-and-planning/planning-and-development/minerals-and-waste/minerals-and-waste-sites/88170.article> [Accessed 30.07.13]

²¹ <http://appsso.eurostat.ec.europa.eu/nui/submitViewTableAction.do> [Accessed 30.07.13]

The JMWMS needs to consider protection of agriculture and the infrastructure required for transportation.

Table 10-8 Farming Produce

Type	Area / Number	Includes
Arable	383,729 ha	Cereals 2,328ha; potatoes 13,650ha; sugar beet 19,971ha; field beans 19,826ha, peas 5,290ha, oilseed rape 62,412ha, linseed 3,695ha, root crops 1,375ha
Horticulture	32,480ha	Peas and beans 11,329ha; other veg and salad 19,067ha; fruit 152ha; bulbs and flowers 1,620ha
Livestock	3,227,858 No.	Cattle 87,814; pigs 174,722; sheep 144,789; goats 1,024; horses 4,760; poultry 12,945,060

10.5.9 Key Issues – Material Assets

Set out below in Table 10-9 are the key issues that can be identified from the baseline data collected in terms of material assets.

Table 10-9 Key Issues: Material Assets

Key Issues – Material Assets
There is an extensive highway network in Lincolnshire. In recent years the length of trunk roads has reduced dramatically as a result of the detrunking of several A roads.
Increasing demand on the transport network and an increase in concern around the environmental impact of traffic.
Waste collection and disposal results in a substantial number of lorry movements into and out of the County to waste management facilities. Regular collections are required from households and with the number of households increasing and the total amount of waste increasing; there is the potential for an impact on transport.
Mineral extraction operations within the county will result in substantial lorry movements to transport materials.
New housing and employment sites are presently being identified across the county,
Lincolnshire contains a significant amount of best and most versatile agricultural land and is a large producer of food.

10.6 Cultural Heritage

10.6.1 Relevance to JMWMS

Waste management decisions may change the pattern and frequency of waste collections which may have a visual impact on areas of heritage value due to the equipment that may be required.

10.6.2 Overview

The term ‘cultural heritage’ covers buried archaeological remains which allow the study of past societies through the medium of material culture, and built heritage which is buildings and structures of heritage interest.

10.6.3 Lincolnshire’s Heritage Assets

Lincolnshire’s historic landscape and built environment reflects local topography, land use and the availability of building materials, and more recently changes in social conditions and technological advances. One of the

county's assets is the combination of styles and materials which represent the economic and aesthetic influences of different periods of history. This is reflected in the high historic and cultural value of the cores of Lincoln City and surrounding towns.

Some of the earliest archaeological remains include evidence of Palaeolithic inhabitation, other features include the prehistoric burial mounds of the Wolds, the waterlogged landscape of the Witham Valley, medieval castles and monasteries and the industrial and agri-industrial buildings of the towns and World War II sites and defences, the most important of which are designated Scheduled Ancient Monuments (SAMs). Lincolnshire has a small number of historic battlefield sites one of which, at Winceby, is registered.

There are a number of grant schemes supported by LCC which aim to repair historic buildings; these schemes include Townscape Heritage Initiative in Boston, Heritage Economic Regeneration Scheme in Burgh le Marsh, Tattershall, Woodhall Spa and Wragby, and Historic Buildings Grant Schemes throughout the county.

10.6.4 Conservation Areas

Conservation areas are designated for their special architectural and historic interest. They are normally centred on listed buildings and groups of other buildings, open space, or historic street patterns. Planning legislation requires that special attention shall be paid to the desirability of preserving or enhancing the character or appearance of the conservation area.

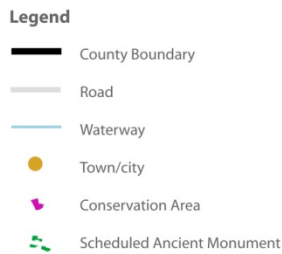
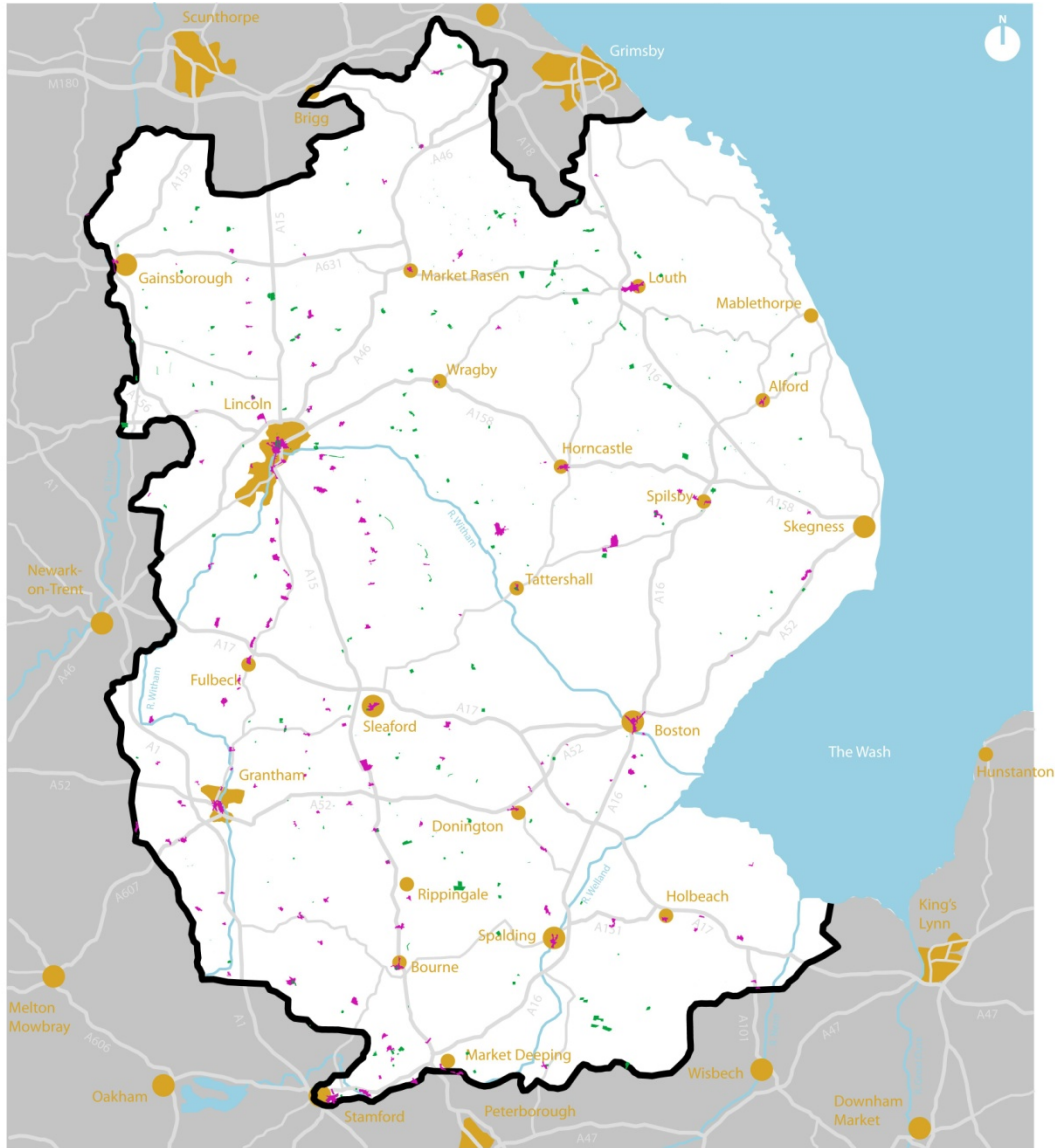
The district councils within the Lincolnshire boundary have recognised the importance of the man-made heritage; this is reflected in development plans which contain a number of policies which afford protection to the character and appearance of the historic built environment. Proposals for waste management developments impinging on conservation areas and listed buildings are expected to respect and enhance their surroundings in terms of appearance. For Lincolnshire as a whole there are 162 conservation areas,²² 7200 Listed Buildings,²³ and 478 Scheduled Ancient Monuments.²⁴ Lincolnshire's conservation areas and Scheduled Ancient Monuments are shown in Figure 10-3.

Figure 10-3 Lincolnshire's Conservation Areas and Scheduled Ancient Monuments

²² <http://www.lincolnshire.gov.uk/residents/environment-and-planning/conservation/conservation-areas/conservation-areas-in-lincolnshire/100514.article> [Accessed 01.08.13]

²³ <http://www.lincolnshire.gov.uk/residents/environment-and-planning/conservation/listed-buildings/> [Accessed 01.08.13]

²⁴ <http://www.lincolnshire.gov.uk/residents/environment-and-planning/conservation/scheduled-monuments/> [Accessed 01.08.13]



Lincolnshire County Council Joint Municipal Waste Management Strategy
Strategic Environmental Assessment Scoping Report

10.6.5 Historic Landscape Character zones

This wider historic landscape character is a fundamental aspect of the historic environment. The County of Lincolnshire has been assessed within the context of English Heritage’s *Historic Landscape Characterisation Programme*. The programme identified 42 Historic Character Zones within 10 broad Historic Landscape Types; these comprised:

- The Confluence
- The Northern Cliff
- The Northern Marshes
- The Wolds
- The Clay Vale

- The Trent Valley
- The Southern Cliff
- The Grazing Marshes
- The Fens
- The Wash

A complete list of the Historic Character Zones is available from English Heritage document ‘*The Historic Character of the County of Lincolnshire*’.²⁵

10.6.6 Key Issues – Cultural Heritage

Set out below in Table 10-10 are the key issues that can be identified from the baseline data collected in terms of cultural heritage.

Table 10-10 Key Issues: Cultural Heritage

Key Issues – Cultural Heritage
Lincolnshire has a large amount of heritage assets including 162 conservation areas, 7200 listed buildings and 478 scheduled ancient monuments across the county.

²⁵ English Heritage(2011). *The Historic Character of The County of Lincolnshire*: English Heritage Project No. 4661. [Accessed 01.08.13]

JOINT MUNICIPAL WASTE MANAGEMENT STRATEGY

ISSUES PAPER FOR STRATEGY REVIEW GROUP

The following are a first attempt at listing the issues that will need to be considered and addressed in the new JMWMS in order to direct the development of waste services in Lincolnshire over the anticipated five year life of the strategy.

Item one has been deliberately chosen as the first as if this is fully developed to a JWA this would allow simpler solutions than are currently available in a two-tier working environment.

The remaining issues are not listed in order of priority but an attempt has been made to group together those requiring consideration at the same time.

Issue No:	Issue	Notes	Proposed Lead (and support)
1.	Closer Integrated Working	<p>A single tier service would solve so many problems and allow the genuine integration of collection and disposal operations.</p> <p>Consideration of the options should start with a full JWA (there are currently non in existence) but could also include variations of a JWC where control is also taken away from individual WCA's and the WDA to an autonomous group of elected members which then runs waste services in the county.</p> <p>When an outline paper was presented to them the CX Group requested that further work be done on this aspect.</p>	<p><u>Mark Taylor</u></p> <p>Ian Taylor</p> <p>Victoria Frodsham</p> <p>Mark Humphreys</p> <p>Glen Chapman</p> <p>David Hickman</p>
2.	Relationship between JMWMS and WCA Waste Strategies	Some (but not all) WCA's have their own waste/recycling strategies. Either the JMWMS should provide the "hooks" linking back to these documents or WCA's should include their own strategies, targets and aspirations as a part of the JMWMS.	
26.	Joint Resources	Consideration of sharing people and building spaces.	
3.	Strategy Review Group	<p>This group will require servicing in terms of minutes from meetings, agendas and work output.</p> <p>Perhaps this should be the number one issue!!</p>	<p><u>Ian Taylor</u></p> <p><u>Victoria Frodsham</u></p>
4.	Links to National Waste Strategy	The targets, objectives and aspirations of the National Waste Strategy 2010 should be included in the JMWMS.	<u>Ian Taylor</u>
5.	Links to EU Legislation	The targets, objectives and aspirations of the various items of current and emerging EU legislation should be included in the JMWMS.	<u>Victoria Frodsham</u>

Issue No:	Issue	Notes	Proposed Lead (and support)
6.	Future role of LWP (Lincolnshire Waste Partnership)	Linked to item one but the current LWP has no authority, no staff, no budget, only acts by consensus and is largely viewed as a WDA initiative with very limited real buy in or support from the WCA's other than attendance at meetings.	<u>Ady Selby</u> Caroline Pritchard Ian Taylor
7.	Future role of LOWG (Lincolnshire Waste Officer Group)	Linked to item one, this group has a higher level of support and allows networking on operational issues. There are no terms of reference and it is not clear if this group is strategic or operational. This is reflected in the differing roles and positions within their authorities of the officers attending.	Victoria Frodsham David Hickman
8.	Future role of LROG (Lincolnshire Recycling Officers Group)	The LROG has been disbanded leaving no mechanism for joint working on recycling and other waste initiatives. The ROG was also the main means by which the Action Plan from the current JMWMS was being delivered. Since the demise of the LROG there has been no progress on any of the targets in the action plan	
9.	Residual waste above capacity of EfW	The level of residual waste in the county has started to increase again and is likely to routinely exceed the 150k tonne capacity of the EfW in the near future. There are no plans regarding the disposal of this additional waste.	<u>Ian Taylor</u> <u>Victoria Frodsham</u>
10.	Food waste and AD	Possible link to the previous item offering a potential longer term solution by the targeted introduction of schemes to disposing of waste surplus waste to the EfW. Combined with that the widespread introduction of food waste and AD across the UK (with support from Defra/WRAP) the JMWMS will need to consider the Lincolnshire position of this process.	Ady Selby Glen Chapman Emily Spicer Planning department
11.	Trade Waste	The National Waste Strategy (item 3 above) contains targets and aspirations related to the increased recycling of trade waste. The use of HWRC's for trade waste recycling may offer a potential income stream. There are currently no options for trade waste recycling available through the WDA or WCA's in Lincolnshire.	<u>Mark Taylor</u> Ady Selby George Bernard Pat Swinton Ian Taylor Victoria Frodsham

Issue No:	Issue	Notes	Proposed Lead (and support)
12.	Kerbside Dry Recyclates	A very contentious issue given the retention of recyclate streams by some WCA's and the operation of contracts by the WDA on behalf of the other WCA's. This is linked to the payment of recycling credits and the retention of income from sale of material contracts. An integrated approach to this in the future across Lincolnshire must be a key outcome of the new JMWMS.	<u>Ian Taylor</u> <u>Victoria Frodsham</u> Ady Selby Mark Taylor Nina Camm
13.	HWRC Recyclates	The range of materials recycled at HWRC's is wide and may not be cost-effective. The role and possible integration of HWRC's into recyclate management in Lincolnshire (and the income streams that are now in evidence) will also need to be considered. This should include if possible integration of WEEE activity.	<u>Ian Taylor</u> <u>Victoria Frodsham</u> Andy McGinn
14.	Waste Composition/ Kerbside Dry Recyclates	Most WCA's have made changes to their collection regimes since the last waste compositional analysis was done as part of the preparatory work for the EfW. It may be appropriate to re-consider this and also to review whether the current range of materials collected for recycling by WCA's is still appropriate. See also comment below on the impact of the introduction of charges for services.	Zoe Cabot Mark Taylor Nina Camm Ady Selby Glen Chapmen
15.	Funding for Waste Operations	<p>Linked to the previous items it must be accepted that with the financial pressures now on local authorities the focus of WCA's has now turned to achieving cost savings as opposed to service improvements.</p> <p>This may have an impact on the previous item as WCA's introduce charges for services that have been free so waste is diverted into residual bins that might otherwise have been dealt with separately. The most obvious example of this is garden waste where most WCA's are already charging or proposing to do so in the near future. Consideration may need to be made to the funding of operations in the current financial climate.</p>	Emily Spicer Pat Swinton Procurement team
16.	Recycling Campaigns and education awareness raising	Linked to the previous item the JMWMS will need to determine whether it is still appropriate or the best use of increasingly scarce resources to support national campaigns such Love Food Hate Waste and home composting or support initiatives with no clearly measurable financial or reduced waste arisings benefit such as Real Nappies.	<u>Doug Robinson</u> Jo Walker Elaine Bilton Emily Spicer

Issue No:	Issue	Notes	Proposed Lead (and support)
17.	Waste Hierarchy and Re-use.	The Waste Hierarchy has recently been amended with more emphasis now placed on activities ahead of recycling such as waste minimisation and waste re-use. The new JMWMS will need to reflect this, against the position that little or no work is being done in the county on these aspects. The revised WEEE contract offers a significant opportunity to engage with re-use with the added bonus of a further possible income stream.	<u>Ian Taylor</u> <u>Victoria Frodsham</u> Ady Selby Andy McGinn
18.	Carbon Management	All partners in the LWP should have carbon management/reduction strategies in place and the LMWMS will need to reflect the targets and objectives these contain, as well as taking into account the carbon impact of waste collection, recycling and disposal operations.	<u>Doug Robinson</u> Jo Walker Steve Golightly
19.	Use of heat from EfW	Linked to the previous item the JMWMS should reflect the position of the WDA on the use of heat from the EfW.	<u>Mike Reed</u> Doug Robinson Steve Golightly
20.	Public Consultation	A public consultation exercise (that given the inclusion of trade waste should also include the business community) will need to be undertaken on a draft to allow the final version to take account of views expressed during the consultation itself. This exercise will also need to involve the various Communications Teams from LWP partners.	<u>Ian Taylor</u> <u>Victoria Frodsham</u> Simon Burgess Rob Brown All WCA comms teams
21.	Member Management (County Cllrs and District Cllrs)	The emerging document will need to be presented to members from all eight partners in the LWP and a mechanism agreed for input and acceptance by LWP partners.	<u>Steve Willis</u> <u>Sean Kent</u> David Hickman Mark Taylor Legal team Planning team Education team
22.	JMWMS Action Plan	The strategy will also require an action plan to support it and demonstrate how the targets, aims and objectives it contains will be delivered. It will also need to indicate who will undertake this work and where any	<u>Ian Taylor</u> <u>Victoria Frodsham</u>

Issue No:	Issue	Notes	Proposed Lead (and support)
		financial resources are required how these will be provided.	Mark Taylor Ady Selby
23.	SEA (Strategic Environmental Assessment) And Impact Assessment	A new strategy will require a SEA to be undertaken and it is unlikely that there is either the capacity or expertise to do this within the LWP. Therefore a mechanism and the necessary budget will need to be determined to engage an external resource to undertake this work.	<u>Ian Taylor</u> <u>Victoria Frodsham</u> External Consultants
24.	Statistical information	Provision of LCC data to support draft strategy	<u>Matthew Michell</u> Douglas Battersby
25.	Production of draft and final strategy	Drafting of documents and reports to go to LWP	<u>Ian Taylor</u> <u>Victoria Frodsham</u> <u>Mark Taylor</u> <u>Ady Selby</u>

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Invitation to Tender for the Lincolnshire Countywide Service Provision of Receiving, Haulage, Sorting and Marketing of Materials for Recycling



Contents

- Timetable
- General Overview
- Core specification key aspects
- Pricing Schedules
- Overview of the Process
- Price Evaluation

Timetable

1	Invitation to Tender Issued	25/03/2015
2	Deadline for Questions about the requirement	28/04/2015
3	Deadline for Bids	05/05/2015
4	Evaluation including interviews and site visits if required	06/05/2015 – 20/05/2015
5	Standstill Period	21/05/2015 – 01/06/2015
6	Contract Awarded	02/06/2015
7	Contract Commencement	01/07/2015

General Overview

- Countywide contract for the receiving, haulage, sorting and marketing of the Mixed Dry Recyclable materials (MDR)
- Interim 3 month contract from 1 April to 30 June due to previous awarded contractor withdrawing before Christmas, to allow time to revise MDR contract.
- Weekly Officer Group meetings has been progressing a revised contract from 1 July for 2 years 9 months with 1 +1 year possible extensions. Reporting to County and Districts CXs.

General Overview

- Utilisation of Lincolnshire County Council (LCC) Waste Transfer Site (WTS). Tonnages for each Waste Collection Authority (WCA) specified
- In addition to LCC WTSs, South Hykeham WTS to serve North Kesteven and City of Lincoln. Contractor to hold operating permit and cost for staffing
- Option for direct delivery if represents better value for money

General Overview

- Optimisation of WTS have been established through Webaspex analysis
- Due to feedback from market engagement: No floor price applied, no gate fee change depending on contamination levels, this is linked solely to market material indices through Lets Recycle and operational costs including profit linked to the Consumer Price Index (CPI)
- These are reviewed on a quarterly basis

Core Specification

Key Aspects

- No specified levels of contamination
- No acceptance of rejection of loads
- Includes WCA lot specific description
- Includes WCA lot specific material lists in terms of Target, Acceptable and Non Acceptable Material

Pricing Schedule

- Operating costs (e.g. overheads, staffing, transport) and Contractor's profit for processing the materials delivered by the Council
- Income received from the sale of the recyclables by the Contractor
- Award Criteria (Most Economically Advantageous Tender)

Overview of Process

1 st Stage	Business Information	Pass/Fail	To establish financial and technical capability
2 nd Stage	Quality	Scored and Threshold	<p>Method statements scored normally but only those bids that score over a set threshold will proceed to the final stage.</p> <p>This threshold is set at a "global" level as well as specifying thresholds for individual questions which are deemed service critical.</p>
3 rd Stage	Price	Scored	<p>Will determine the award of the contract.</p> <p>Based upon the annual value of the gate fee multiplied by the tonnage for each WCA lot.</p>

Price Evaluation

Supplier	Price	%
1	£125,000	75
2	£185,000	15
3	£100,000	100
4	£150,000	50
5	£225,000	0

Questions

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Agenda Item 3.1



LINCOLNSHIRE WASTE PARTNERSHIP

13 April 2015

SUBJECT :	INCINERATOR BOTTOM ASH AS RECYCLING
REPORT BY:	IAN TAYLOR
CONTACT NO:	01522 552376

BACKGROUND INFORMATION

The contract with FCC for the Energy from Waste (EfW) facility requires that Incinerator Bottom Ash (IBA) arising from the thermal treatment is sent for cleaning and the removal of oversize material with the remainder then going for recycling in a breeze block type application or as an aggregate substitute in construction.

Under current UK legislation IBA from the plant at Hykeham is reported separately on the national Waste Data Flow system but cannot be counted toward the overall recycling performance of the County.

The position with the Lincolnshire EfW facility is somewhat different to a lot of other similar plants around the country in that it is only taking municipal solid waste and not extensive amounts of other commercial, industrial and demolition wastes that it would clearly be inappropriate to include in any calculation of recycling performance related to domestic arisings.

There may also be an ambiguity within the European Union as it is believed that certain countries do include IBA in the figures used to calculate recycling performance. This may be occurring as the transposition of EU regulations into national legislation is open to different interpretations by different sovereign governments.

The issue at stake here is quite substantive, as in 2014 the EfW produced approximately 35,000 tonnes of IBA, and if this was added to the material collected and sent for recycling it would increase the overall Lincolnshire recycling performance by over nine per cent.

This argument also applies to the scrap metal that is removed from the IBA at the plant itself which is also reported separately but again cannot be counted toward recycling performance.

At a very recent meeting of the National Association of Waste Disposal Officers this issue was raised during discussions in the presence of the representative attending on behalf of Defra and is an issue that other authorities are clearly interested in pursuing.

RECOMMENDATIONS

It is recommended that a letter is sent on behalf of the Lincolnshire Waste Partnership to Defra covering the following aspects:

1. Highlighting the unique approach with the both Lincolnshire EfW and supporting contract requiring this material be recycled.
2. Requesting clarification of the UK position on including IBA in calculating Waste Disposal Authority recycling performance.
3. Requesting clarification of the approach being adopted by other countries within the EU to the inclusion or other wise of IBA in calculating local authority performance.
4. Seeking a change in the UK to allow facilities that only process municipal solid waste to include IBA in the calculation of the Waste Disposal Authority recycling performance.
5. Copy this letter to the National Association of Waste Disposal Officers and request that they also lobby Defra on behalf of all Waste Disposal Authorities for a change to recycling performance accounting allowing the inclusion of Incinerator Bottom Ash from Municipal Solid Waste.



LINCOLNSHIRE WASTE PARTNERSHIP

13 April 2015

SUBJECT :	ENERGY FROM WASTE UPDATE
REPORT BY:	SEAN KENT
CONTACT NO:	01522 554833

OPENING CEREMONY

The plant was officially opened on the 27th November by Vince Cable MP, Secretary of State for Business, Innovation and Skills, with invited guests. There was extensive media coverage and the event was considered by partners to be widely successful.

WASTE TONNAGES

The plant is taking all of the Authorities waste and is expected to almost achieve the target amount of 150,000 tonnes for 2014/2015, as shown in the table below:

	Target	Actual	Status	Cummulative Target	Cummulative Actual	Cummulative Status
April	12500.00	13667.20	-1167.20	12500.00	13667.20	1167.20
May	12500.00	13752.86	-1252.86	25000.00	27420.06	2420.06
June	12500.00	10095.00	2405.00	37500.00	37515.06	15.06
July	12500.00	14004.48	-1504.48	50000.00	51519.54	1519.54
August	12500.00	12566.20	-66.20	62500.00	64085.74	1585.74
September	12500.00	13614.83	-1114.83	75000.00	77700.57	2700.57
October	12500.00	10415.76	2084.24	87500.00	88116.33	616.33
November	12500.00	12236.40	263.60	100000.00	100352.73	352.73
December	12500.00	13045.46	-545.46	112500.00	113398.19	898.19
January	12500.00	14547.50	-2047.50	125000.00	127945.69	2945.69
February	12500.00	11896.84	603.16	137500.00	139842.53	2342.53
March	12500.00	9438.04	3061.96	150000.00	149280.57	-719.43
Total	150000.00	149280.57	719.43	150000.00	149280.57	-719.43

CAPACITY OF FACILITY

The plant and the waste transfer stations continue to consistently perform well, with the Authorities presented waste being seamlessly processed. There is a nominal amount of commercial waste presented by Biffa and Lindum, which is presently being accepted, due to the efficiency of the facility.

Consequently, FCC the plant operators are to submit a planning application for an additional 20,000 tonnes, to achieve 170,000 tonnes capacity. This planning application is expected in April 2015.

COMPLAINTS

There has only been one complaint about odour which was answered, asking for clarification and inviting a site visit to view the plant and further discuss the perceived problem. There has been no response to date.

RECOMMENDATION

The Lincolnshire Waste Partnership is recommended to note the contents of this report.



LINCOLNSHIRE WASTE PARTNERSHIP

13 April 2015

SUBJECT :	TEEP
REPORT BY:	IAN TAYLOR
CONTACT NO:	01522 552376

BACKGROUND INFORMATION

At the meeting of the Lincolnshire Waste Partnership on 14 July 2014 a report was presented outlining the impact of changes to the Waste Regulations necessary to transpose the EU Waste Framework Directive into English law. This included the requirement from 1 January 2015 for there to be separate collections of the four key recyclable materials of paper, plastic, metals and glass.

The issue of what actually constituted a "separate" collection had been subject to a legal challenge to the original Defra interpretation that this requirement was allowable under co-mingled collections of the sort operated by all Waste Collection Authority partners in Lincolnshire.

Part of the process was to undertake an assessment of the collection methodology being used and whether the introduction of separate collections where materials were collected entirely separate was Technically, Environmentally and Economically Practicable (TEEP).

Despite repeated undertakings to do so Defra failed to produce guidelines on how to complete a TEEP assessment, but a group of organisations involved in the public sector side of the waste industry produced a roadmap which has been widely adopted as the best approach to assessing TEEP.

As a part of the preparatory work for the countywide mixed dry recyclable (MDR) contract all Lincolnshire Authorities have used the roadmap to complete a TEEP assessment, and all have concluded that the collection systems currently in place are TEEP compliant.

The Environment Agency has been tasked with enforcing compliance with TEEP, and has stated that the roadmap has been adopted as the preferred way to demonstrate compliance.

The approach being used by all the Lincolnshire authorities does include a commitment to periodic on-going re-assessment to ensure the collection system in place remains TEEP compliant.

There had been some concern that a legal challenge might be launched against the current widespread usage of co-mingled collections by targeting an authority or authorities soon after 1 January 2015. During soft market testing for the MDR contract a number of Material Reclamation Facility (MRF) operators stated that they did not expect any challenge to be mounted until mid-2016 at the earliest as that is when the first full year of data from testing materials for contamination going into MRFs will be available.

The Lincolnshire Officer Waste Group will continue to monitor this situation from both a local and national perspective.

RECOMMENDATION

The Lincolnshire Waste Partnership is recommended to note the contents of this report.



LINCOLNSHIRE WASTE PARTNERSHIP

13 April 2015

SUBJECT :	NATIONAL FRAMEWORK HOME COMPOST BIN SCHEME 2014/15
REPORT BY:	IAN TAYLOR
CONTACT NO:	01522 552376

BACKGROUND INFORMATION

All Authorities within the Lincolnshire Waste Partnership currently support a home compost bin scheme with Straight plc that is due to end on the 31st March 2015. This is a scheme whereby residents can purchase home compost bins directly from the manufacturer but at a reduced price achieved by the supply being on a national framework scheme.

The support given by all partners of the Lincolnshire Waste Partnership includes active promotion of the scheme and inclusion of the contact address on individual council websites.

Straight plc are in the second year of the Totally Managed Home Composting Bin Scheme, and details of products and prices have now been received for use from 1 April 2015.

The scheme continues to offer a variety of items including:

- A range of different styles of compost bins
- Kitchen caddies and liners
- Water butts
- Wormeries
- Bokashi kitchen composters
- Composting accessories

The full range available and prices can be seen in Appendix 1 and when these are compared with the costs of similar items from commercial outlets the prices remain favourable for residents purchasing through the scheme.

This information has arrived too late for consideration by the Waste Officer Group, so to ensure that the revised details are available for inclusion on all partner websites the chairs of the Officer Group and the Partnership agreed to circulate the details ahead of this meeting.

In making this decision due consideration was given to the unqualified support all members of the Partnership have given to this scheme in the past.

All the necessary changes to partner websites have now been completed to reflect the new scheme.

RECOMMENDATION

The Lincolnshire Waste Partnership is recommended to endorse the decision of the Chairman and chair of the Waste Officer Group to continue with the National Framework Compost Bin Scheme during 2015.16.

Straight Client Pricing for Home Compost Bin Totally Managed Service 2014

The following list details the standard products and prices to be included on the campaign.
Should you have any specific requirements or wish to apply subsidy to any products,
Please email us at info@getcomposting.com.

Type of campaign	HOME DELIVERY	Earliest start date	31/03/2015	End Date	31/03/2016
Standard Products:	Standard Price	SPECIAL OFFERS			
COMPOSTERS					
Blackwall 220 litre Black Compost Converter	£17.98	BUY ONE GET ONE HALF PRICE			
Blackwall 330 litre Black Compost Converter	£19.98	BUY ONE GET ONE HALF PRICE			
Thermo-King 600 litre Compost Bin	£65.00				
Thermo-King 900 litre Compost Bin	£90.00				
Green Johanna 200 litre Hot Composter	£99.99				
Green Cone 200 litre Food Waste Digester	£85.00				
Klip Kit 395 litre Wooden Composter	£49.00				
Wooden 480 litre Modular Composter	£79.00				
Draper 180 litre Compost Tumbler	£82.00				
Hotbin with Extras 200 litre Compost Bin	£179.00				
Hotbin Basic 200 litre Compost Bin	£165.00				
Blackwall Twin Pack Bokashi Bin	£24.99	Previously 'Blackwall Kitchen Composter'			
* Available on request as an alternative to black					
Blackwall 220 litre Green Compost Converter *	£19.98				
Blackwall 330 litre Green Compost Converter *	£21.98				
COMPOSTING ACCESSORIES					
Blackwall Compost Converter Base Plate	£10.00	BUY ONE GET ONE HALF PRICE			
Thermo-King Base Plate	£18.00				
Lid for Klip Kit Wooden Composter	£20.00				
Lid for Wooden 480 litre Modular Composter	£31.00				
Be Green 500ml Compost Maker	£6.95				
Compost Aerator	£8.00				
Compost Sieve	£6.98				
Bokashi Bran Refill 1kg	£7.00				
Bokashi Bran Refill 3kg	£14.00	3kg for the price of 2kg			
Compost Book – Backyard Composting	£2.95				

WORMERIES

Can-O-Worms 2 Tier Wormery (45 litre)	£65.00	
Can-O-Worms 3 Tier Wormery (70 litre)	£89.00	
Additional Worms: 125g	£8.00	

CADDIES & LINERS

Straight 5 litre Green Kitchen Caddy	£5.00	
Straight 23 litre Green Caddy	£8.00	
Caddy Liners Small x 1 Roll (5-7 litre - roll of 26)	£3.00	3 rolls for price of 2
Caddy Liners Medium x 1 Roll (10 litre - roll of 26)	£3.50	3 rolls for price of 2
3 Litre Sage Compost Pail	£13.99	
4.4 litre Sage Deluxe Compost Pail	£18.99	

WATER BUTTS

Rainsaver 190 litre Water Butt Kit	£29.98	BUY ONE GET ONE HALF PRICE
Mini Rainsaver 100 litre Water Butt Kit	£24.98	BUY ONE GET ONE HALF PRICE
Rainwater 500 ml Refresh Liquid	£6.00	
Water Butt Link Kit	£6.00	

DELIVERY CHARGES

For orders up to and including £9.99	£1.99	Payable by Resident
For orders of £10.00 and over	£5.99	Payable by Resident