

Worcestershire Waste Core Strategy Background Document

Waste Sites in Worcestershire



MARCH 2011

Prepared by R.Bailey, S.Aldridge and N.Dean

The Council is preparing a *Waste Core Strategy*: a plan for how to manage all the waste produced in Worcestershire up to 2027. To help provide a robust evidence base for the Waste Core Strategy the Council has prepared a series of background documents. These outline current thinking and have informed the approach taken in the development of the Waste Core Strategy.

We welcome any comments you would like to make on any of the background documents during the *Publication Document (Regulation 27) Consultation*. The consultation will run from **22nd March – 4th May 2011**.

To make comments, request paper copies of the documents or for further information please contact:

Nick Dean
Planning Environment and Economy
Worcestershire County Council
County Hall
Spetchley Road
Worcester
WR5 2NP

01905 766374
wcs@worcestershire.gov.uk

For planning advice and support service see <http://www.rtpi.org.uk/planningaid>.

Contents

INTRODUCTION.....	4
A BRIEF INTRODUCTION TO WORCESTERSHIRE	ERROR! BOOKMARK NOT DEFINED.
WORCESTERSHIRE SITE LOCATIONS, SIZE AND CAPACITY	5
ANALYSIS OF THE SIZE AND THROUGHPUT OF WASTE SITES IN WORCESTERSHIRE	7
<i>Household Waste Sites/Civic Amenity Sites</i>	7
<i>Waste Transfer Stations and Material Recycling Facilities.....</i>	7
<i>Metal Recycling Sites</i>	8
<i>Composting</i>	9
<i>Physical Treatment.....</i>	9
<i>Thermal Treatment</i>	10
<i>Landfill.....</i>	10
<i>Other Operations</i>	11
<i>Overview of all waste operations</i>	11
SITE SPECIFIC DATA: SIZE AND THROUGHPUT OF WASTE MANAGEMENT SITES IN WORCESTERSHIRE.....	13
SUMMARY OF MEETINGS WITH INDUSTRY	23
<i>The main issues</i>	24
<i>Sims Recycling Solutions</i>	72
<i>Long Marston, Worcs CV37 8AQ.....</i>	72
APPENDIX 1: WORCESTERSHIRE WASTE CORE STRATEGY	
BACKGROUND DOCUMENTS.....	74
KEY THEMES	ERROR! BOOKMARK NOT DEFINED.
WASTE STREAMS.....	ERROR! BOOKMARK NOT DEFINED.
MANAGEMENT FACILITIES	ERROR! BOOKMARK NOT DEFINED.

Introduction

This document forms part of the evidence base for the Worcestershire Waste Core Strategy. It focuses on existing waste management operations in Worcestershire, with the exception of sewage treatment works.

The first section sets out the existing waste management sites in the County and considers the relationships between their size and capacity. It includes an illustrative diagram of the location of all known waste management sites in the County, and analysis of the relationship between site size and throughput for different types of waste management facilities. It also includes a table which details the location, the type of facility, the size and the throughput for each site.

In order to gain this information, the majority of known waste sites in the County were visited between September 2008 and July 2009. During these visits operators were asked about any issues currently faced, any future changes anticipated and were asked if there were any concerns which they would like to see addressed in the Waste Core Strategy. These meetings are summarised in the second section of the report.

This document provides a snap-shot of the waste industry in Worcestershire in July 2009, as such it has not and will not be updated.

New permissions are monitored through the Annual Monitoring Report (AMR) and some of the other background documents use more recent data were it is available.

Worcestershire Site Locations, Size and Capacity

Figure 1 is an illustrative map of all known Waste Management Sites in Worcestershire (as at 28th July 2009), based on Environment Agency data, planning permissions and officer knowledge. Further details are provided in Table 2, including precise locations, the type of facility and the size.

In general, waste sites tend to cluster in or near to towns in the north of the County with few existing waste sites in Malvern Hills District or Worcester City. The most marked exceptions to this are civic amenity sites, which are found in or near to all towns in the County.

Figure 1: Waste Management Sites in Worcestershire

See next page.

<< MAP 4: Existing Waste Sites > >

Analysis of the size and throughput of Waste Sites in Worcestershire

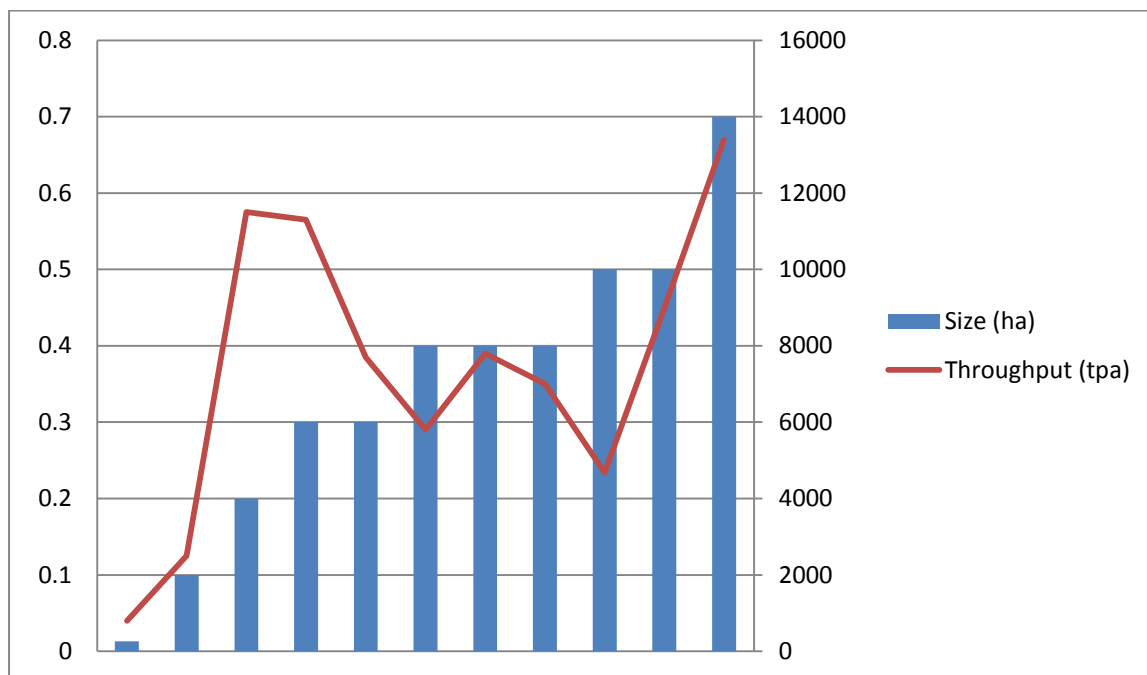
The sites illustrated on Figure 1: Waste Management Sites in Worcestershire Figure 1 are listed in Table 2 on page 14 onwards, with further details of their location, size and throughput. This section considers each category of waste site, considering typical sizes and throughputs.

Household Waste Sites/Civic Amenity Sites

In Worcestershire there are 11 household waste sites. These range in size from 0.013 ha to 0.7 ha, with a modal average size of 0.4ha. Throughput ranges from 800 tpa to 13,400 tpa. The relationship between site size and throughput is illustrated in Figure 2. There is however no clear trend, this is likely to be due to a range of factors, including:

- the types of waste accepted
- opening hours
- the location of each site and its area of catchment
- site layout, including the facilities available and ease of use.

Figure 2: Household Waste Sites: Relationship between size and capacity



Waste Transfer Stations and Material Recycling Facilities

There are 21 waste transfer stations and 2 MRFs in the County. Of these 3 waste transfer stations and 1 MRF only manage municipal waste. The waste transfer stations and MRFs in the county range in size from 0.024 ha to 6.9 ha with a mean average size of 1.11 ha. The median average size is 0.4 ha.

Throughput ranges from 23 tpa to 170,000 tpa, with average throughput being 24,688 tpa.

The relationship between site size and throughput is illustrated in Figure 3. Where both size and capacity are known sites are plotted on the left of the graph so that trends can be seen. Where only size is known, sites are plotted on the right hand side of the graph for information.

Figure 3: Waste Transfer Stations and MRFs: Relationship between size and capacity

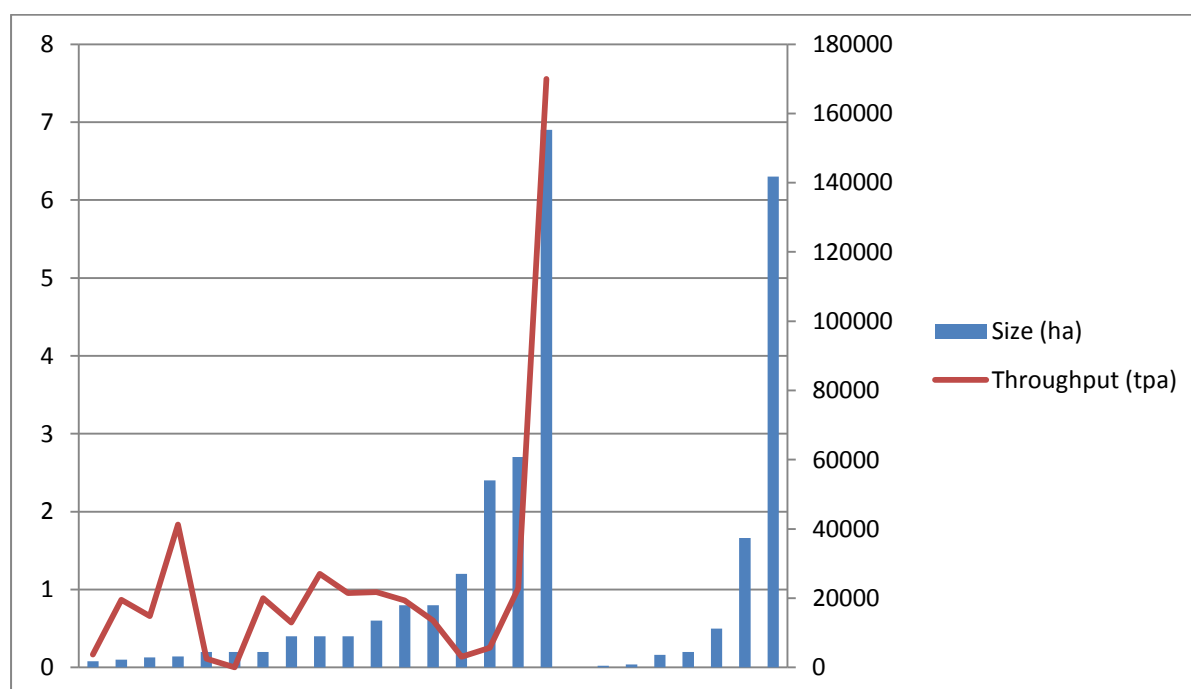
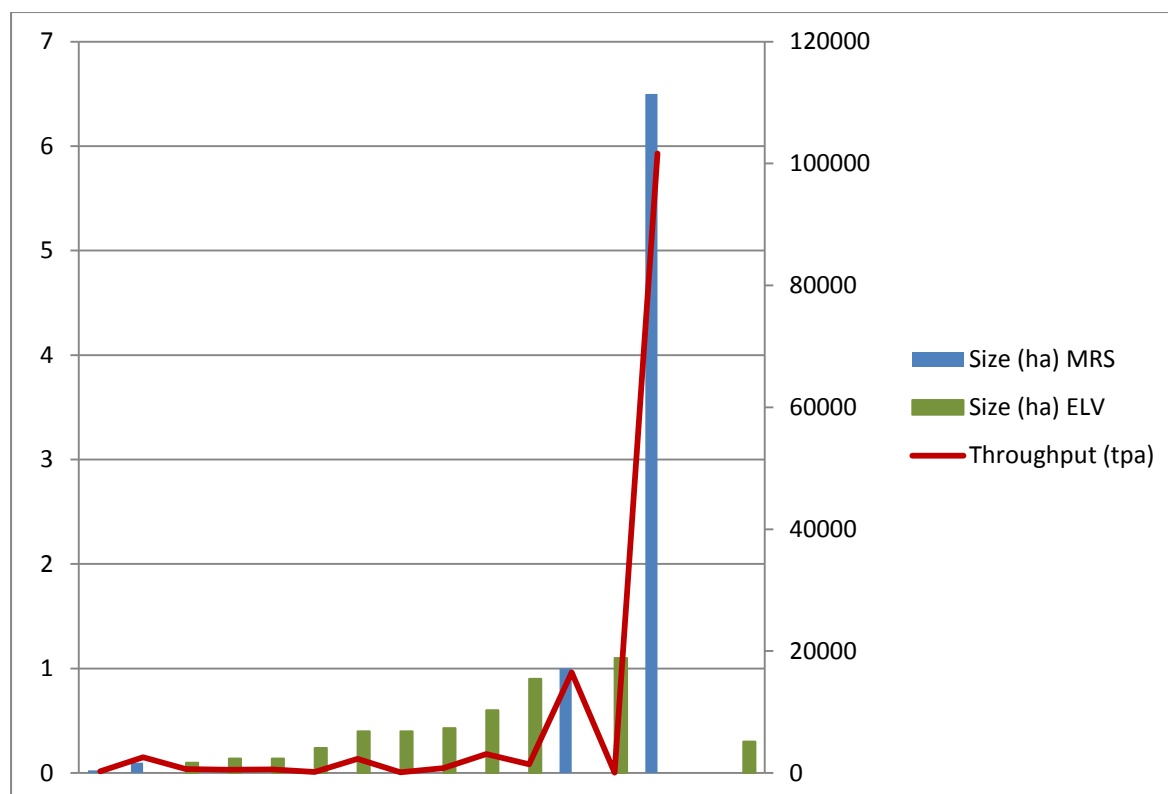


Figure 4: Metal Recycling Sites: Relationship between size and capacity



Of all the types of waste sites considered in this document MRS show the strongest relationships between site size and throughput. On average an MRS site manages 15,000 tpa/ha, with ELV sites managing approximately 2,000 tpa/ha.

Composting

There are 7 composting sites in Worcestershire with planning permission, ranging from 0.3ha to 1.4ha in size. Only the largest of these sites is currently operational¹. This site has a throughput of 25,000 tpa.

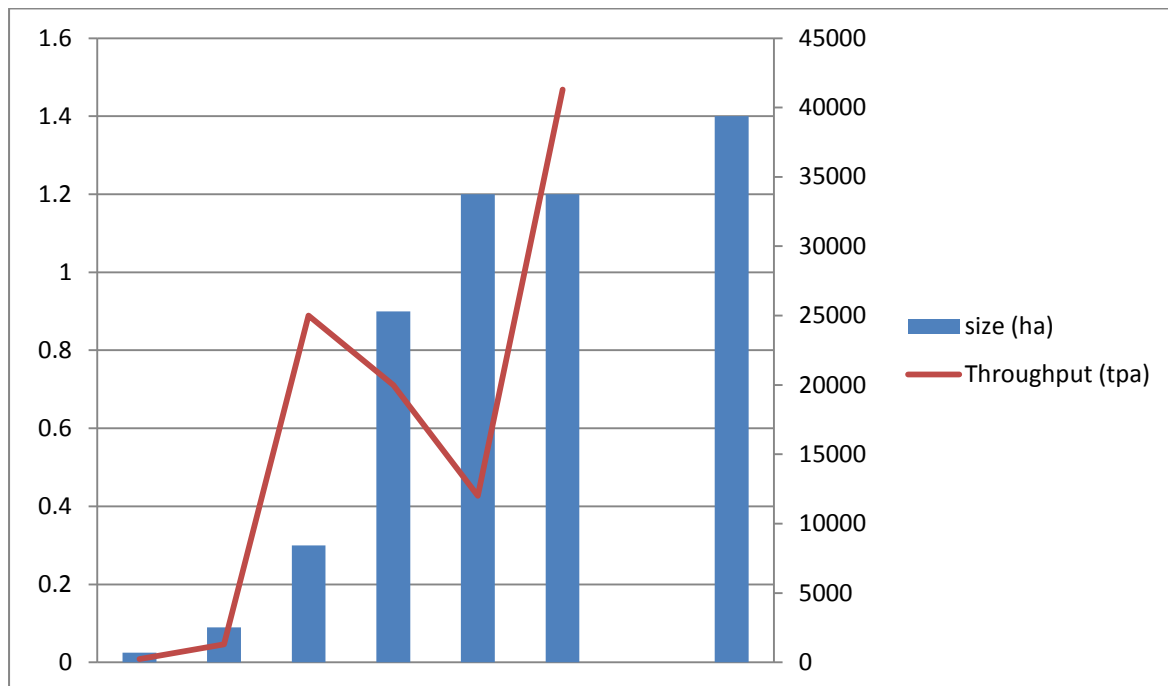
Physical Treatment

There are 7 physical treatment sites in Worcestershire, including one site which treats WEEE. The majority of site sizes range from 0.025ha to 1.4ha with the exception of one site which is 3.6ha in size. Throughput varies considerably from 240 tpa to 25,000 tpa.

The relationship between site size and throughput is illustrated in Figure 5. Where both size and capacity are known sites are plotted on the left of the graph so that trends can be seen. Where only size is known, sites are plotted on the right hand side of the graph for information.

¹ As at 7th August 2009.

Figure 5: Physical Treatment: Relationship between size and capacity



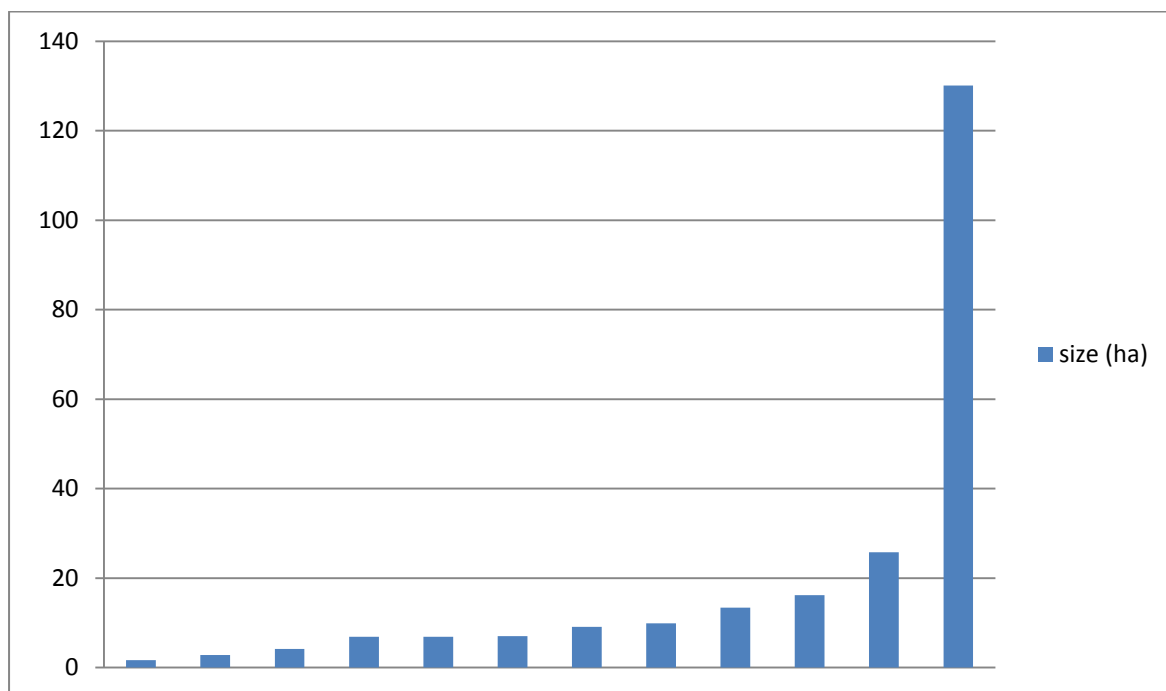
Thermal Treatment

There are three thermal treatment sites with planning permission in Worcestershire. Two of these are currently operating. The largest is 0.4 ha in size with a throughput of 8,379 tpa. The smallest is 0.09 ha in size with a throughput of 36 tpa.

Landfill

There are 13 landfill sites or infilling operations in the county, ranging from 1.66 ha to 130 ha in size. Throughput is only known for 2 of these sites. The sizes are illustrated on Figure 6.

Figure 6: Landfill: Site sizes



Other Operations

There are 3 waste storage facilities and 2 waste transport depots in the County. The storage facilities range from 0.2 ha to 2.8 ha in size and the transport depots from 0.1 ha to 0.5 ha.

Overview of all waste operations

Figure 7 shows the size of all waste sites in Worcestershire, demonstrating that more sites fall into size the category 0.25ha or below than any other size cohort and 66% of site in the County are smaller than 0.5 hectares in size. Only 22% of sites are larger than 1 hectare.

Figure 7: Size of waste sites in Worcestershire

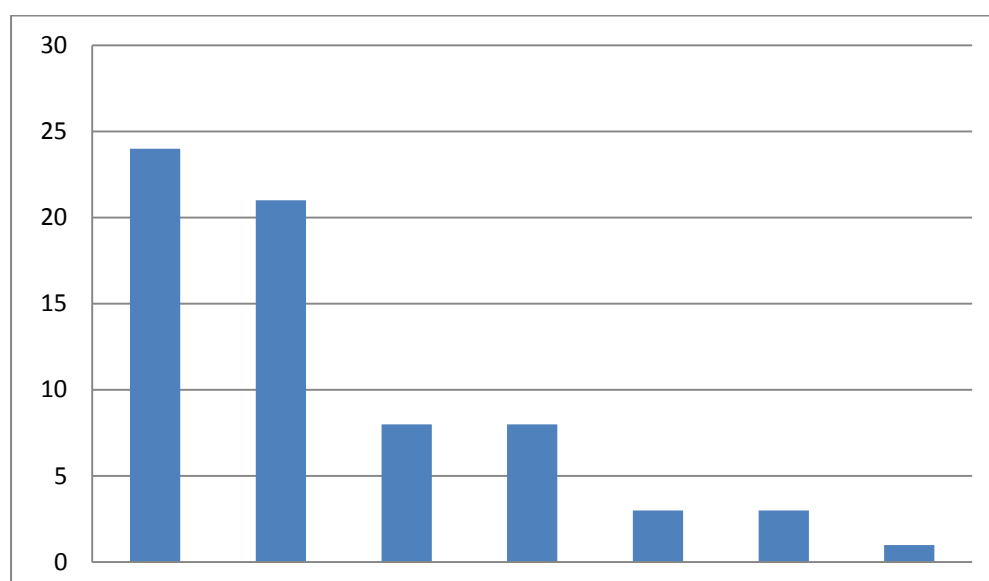


Table 1 shows the average throughput of waste sites per hectare. It does not show that of household waste sites due to the large variations seen. All averages are approximate.

Table 1: Average throughput per hectare

Facility Type	Throughput per hectare (tpa)
Waste Transfer Station	23,500
Metal Recycling Sites	15,000
End of Life Vehicles	2,000
Composting	18,000
Physical Treatment	27,000
Overall average	17,000

The Median Average throughput of all waste sites in Worcestershire is 17,500 tonnes/Ha/p.a.

The Mean average throughput of all waste sites in Worcestershire is 33,597tonnes/Ha/p.a.

Site Specific Data: Size and Throughput of Waste Management Sites in Worcestershire

Table 2 gives details of individual sites. Facilities are classified by their general type as well as the Environment Agency 'A' code where relevant, further details of these classification are provided in the key. Size and Capacity details are also included. This information is based predominantly on EA Waste Interrogator 2007 Outputs (Search Date 28th May 2009)

Search parameters:

- WPA: Worcestershire
- EWC code: 1-20 and 23
- Facility Type: Include All
- Report on Waste Facilities by: Waste Received

Where indicated the data is supplemented with information gained from site visits to operational facilities within the County.

Key:

A01: Co-disposal Landfill	A09: Special Waste Transfer Station	A17: Physical-Chemical Treatment Facility
A02: Other Landfill site taking special waste	A10 In-house storage facility	A18: Incinerator
A03: Borehole	A11: Household Commercial and Industrial Waste Transfer Station	A19: Metal Recycling Facility (Vehicle Dismantler)
A04: Household commercial and Industrial waste landfill	A12: Clinical Waste Transfer Station	A19a: End of Life Vehicle Facility
A05: Landfill taking non-biodegradable waste	A13: Household waste amenity site	A20: Metal Recycling Site (Mixed)
A06: Landfill taking other waste	A14: Transfer Station taking non-biodegradable waste	A21: Chemical Treatment Facility
A07: Industrial Waste landfill (factory Curtilage)	A15: Materials Recycling Facility	A22: Composting Facility
A08: Lagoon	A16: Physical Treatment Facility	A23: Biological Treatment Facility
		A24: Mobile Plant
<p>WTD (Waste Transport Depot) is not an Environment Agency 'A Code' but is a term used by Worcestershire County Council Planning Policy team to describe two specific sites, which did not neatly fit under any of the 'A Code' Listings, which were primarily used as storage depots for waste transport vehicles.</p> <p>OPP (Outstanding Planning Permission) is not an Environment Agency 'A Code' but is a term used to refer to sites with planning permission for Waste Management Facilities which is not yet implemented.</p> <p>PC (Pending Consideration) is not an Environment Agency 'A Code' but is a term used to refer to sites, where planning applications had been submitted to the County Council and are pending consideration.</p>		

Table 2: Current Waste Management Sites in Worcestershire (as at 29th July 2009)

ID	District	Address	Operator	Facility	Size (ha)	Throughput (tpa)	Easting	Northing	Code
1.	Bromsgrove	Sandy Lane (Veolia), Wildmoor, Bromsgrove, B61 0QT	Veolia Ltd	Landfill	2.1 > (9.9)		395258	276256	A04
2.	Bromsgrove	Warwick Stone, Tickeridge Farm, Timberhonger Lane, Bromsgrove, B61 9DN	Mr R Coombes	Infilling	2.1 > (2.8)		394284	270540	A05
3.	Bromsgrove	Chadwich Lane Quarry, Madley Heath, Bromsgrove, DY9 9UX	Mr B Wood	Infilling	2.1 > (6.9)		395745	276983	A05
4.	Bromsgrove	Weights Farm, Weights Lane, Redditch, B97 6RG	Mr S Wood	Landfill	2.1 > (4.2)		402863	269492	A05
5.	Bromsgrove	Pinches 3 Sand Quarry, Wildmoor Lane, Wildmoor, Bromsgrove	MV Kelly Ltd	Infilling (A05)	Shared site 2.1 > (1.66)	-	396722	275394	OPP
6.	Bromsgrove	Pinches 3 Sand Quarry, Wildmoor Lane, Wildmoor, Bromsgrove	MV Kelly Ltd	Household commercial and industrial waste transfer station (A11)		-	396643	275669	OPP
7.	Bromsgrove	Wildmoor Quarry, Redditch Skip Hire, Sandy Lane Wildmoor, Bromsgrove, B61 0QT	Mr S Wood	Waste Transfer Station	0.6 - 1.0 (0.8)	19,317	395016	276051	A15
8.	Bromsgrove	Bromsgrove Bulking Bays, Aston Road, Aston Fields Industrial Estate, Bromsgrove, B60 3EX	Mercia Waste	Waste Transfer Station	Shared size 0.5 < (0.4)	13,000 ^c	396064	268458	A11
9.	Bromsgrove	A-Z Skips Metals and Ores, Trading Estate, Hanbury Road, Stoke Prior, Bromsgrove, B60 4JZ	Mr Banham	Waste Transfer Station	0.5 < (0.2)	2,526	394990	267051	A20
10.	Bromsgrove	Lower Park & Redditch Skip Hire, Weights Lane, Redditch, B97 6RG	Mr S Wood	Waste Transfer Station	0.5 < (0.14)	41,317	403450	269349	A11
11.	Malvern Hills	Tarmac Ltd, Ball Mill Quarry, Worcester Road, Grimley	Tarmac Ltd	Transfer station taking non-biodegradable waste	0.5 < (0.07)		383273	260529	A14

ID	District	Address	Operator	Facility	Size (ha)	Throughput (tpa)	Easting	Northing	Code
12.	Bromsgrove	Quantry Lane (Bromsgrove) Household Waste Site Off Money Lane Romsley Bromsgrove, DY9 9UU	Mercia Waste	HWS	0.5 < (0.4)	5,800 ^c	396319	277843	A13
13.	Bromsgrove	Bromsgrove Household Waste Site, Aston Road, Aston Fields Industrial Estate, Bromsgrove, B60 3EX	Mercia Waste	HWS		16,200 ^b	396064	268458	A13
14.	Bromsgrove	Bromsgrove Household Waste Site, Aston Road, Aston Fields Industrial Estate, Bromsgrove, B60 3EX	Mercia Waste	HWS		16,200 ^b	396064	268458	A13
15.	Bromsgrove	Veolia Ltd, Sandy Lane, Wildmoor, Bromsgrove, B61 0QT	Veolia Ltd	Composting (A22)	1.1 – 2.0 (1.3)	-	395031	276225	OPP
16.	Bromsgrove	Westside Forestry Ltd, The Stables, Harbours Hill, Belbroughton, DY9 9XE	Mr B Kenwood	Storage and Recycling of timber by-products	2.1 > (2.8)	1,000 ^b	395648	277076	A15
17.	Bromsgrove	Portway Motor Services, Holly Farm, White Pits Lane, Alvechurch, B48 7HX	Mr J Chambers	Metal recycling site (vehicle dismantler)	0.5 < (0.43)	827 ^a	408260	272124	A19
18.	Bromsgrove	DJ Craddock & Sons, Clevedon Farm, Icknield Street, Redditch, B98 9AH	Mr and Mrs Maylor	Metal recycling site (MRS) (mixed)	0.6 - 1.0 (1.0)	16,500 ^g	406238	269542	A20
19.	Bromsgrove	Associated Commercial Dismantlers (ACD), High Park Wood, Alcester Road, Redditch, B98 9DT	Mr Robins	End of Life Vehicles Facility	0.5 < (0.24)	145	408665	271064	A19a
20.	Bromsgrove	Reservoir Motors Ltd, High Park Wood, Alcester Road, Redditch, B98 9DT	Mr and Mrs Monk	End of Life Vehicles Facility	0.5 < (0.14)	573	408665	271064	A19a
21.	Malvern Hills	Saxon's Lode, Tewkesbury Road, Near Upton on Severn	Cemex	Infilling (A05)	2.1 > (9.1)	-	386610	239151	PC
22.	Malvern Hills	Maile Waste Management, Leigh Sinton, Nr. Malvern, Guinness Park Farm, WR13 5EQ	Mr R Costello	Waste Transfer Station	0.6 - 1.0 (0.1)	19,551	378590	251634	A11
23.	Malvern Hills	Upton-on-Severn Household Waste Site, Sink Lane, Hanley Castle Road, Upton on Severn, WR8 0HU	Mercia Waste	HWS	0.5 < (0.1)	2,500 ^b	384985	240784	A13

ID	District	Address	Operator	Facility	Size (ha)	Throughput (tpa)	Easting	Northing	Code
24.	Malvern Hills	Tenbury Wells Household Waste Site, Palmers Meadow Car Park, Tenbury Wells, WR15 8SF	Mercia Waste	HWS	0.5 < (0.013)	800 ^c	359831	268210	A13
25.	Malvern Hills	Newlands (Malvern) Household Waste Site, Worcester Road, Malvern Link, Malvern, WR13 5AX	Mercia Waste	HWS	0.5 < (0.3)	11,300	379282	248472	A13
26.	Malvern Hills	Three Counties Showground, Three Counties Agricultural Society, The Showground, Malvern, WR13 6NW	Three Counties Agricultural Society	Composting facility			378545	242769	A22
27.	Malvern Hills	Croome Farm, Croome D'Abitot, Severn Stoke	Mr P Troughton	Composting facility	0.5 < (0.5)	-	389580	244645	OPP
28.	Malvern Hills	Carver Knowles, Land at OS 7890 3219 Pendock	Carver Knowles	Composting facility			378900	232190	A22
29.	Malvern Hills	Court Reclamation & Salvage Ltd (CRS), Spring Lane South, Malvern Link, WR14 1AT	Mr G Jones	Metal recycling site (MRS) (Mixed)	0.5< (0.1)	2,600 ^b	379130	247472	A20
30.	Malvern Hills	Court Reclamation & Salvage Ltd (CRS), Spring Lane South, Malvern Link, WR14 1AT	Mr G Jones	Metal recycling site (MRS) (Mixed) (A20)	0.5 < (0.2)	-	379145	247437	PC
31.	Malvern Hills	Halfkey Farm, Halfkey, Malvern	Mrs K Preston	Incinerator (A18)	0.5 < (0.004)	-	376351	248961	OPP
32.	Malvern Hills	Biffa Depot, Guinness Park Farm, Malvern, WR13 5EQ	Biffa Waste Services	Waste Transport Depot	0.5 < (0.5)	0 ^b	378605	251604	WTD
33.	Redditch	Redditch WTS, Crossgate Road, Park Farm Industrial Estate, Redditch, B98 7SN	Mercia Waste	Waste Transfer Station	0.5 < (0.4)	27,000 ^c	406230	265460	A11
34.	Redditch	Redditch Bulk Bays, Crossgate Road, Park Farm Industrial Estate, Redditch, B98 7SN	Mercia Waste	Waste Transfer Station (bulking up facility)	0.5 < (0.3)	8,700 ^c	406280	265325	A11
35.	Redditch	WH Cossey, Unit 5, Upper Crossgate Road, Park Farm Industrial Estate, Redditch, B98 7SR	Mr S Wood	Waste Transfer Station	0.5 < (0.13)	14,792 ^a	406164	265592	A11
36.	Redditch	Redditch Household Waste Site, Crossgate Road, Park Farm Industrial	Mercia Waste	HWS	0.5 < (0.2)	11,500 ^c	406204	265442	A13

ID	District	Address	Operator	Facility	Size (ha)	Throughput (tpa)	Easting	Northing	Code
		Estate, Redditch, B98 7SN							
37.	Redditch	Land at Priest Bridge Bradley Green	Guardian Waste Management Ltd	Composting (A22)	1.1 - 2.0 (1.5)	-	399302	260043	PC
38.	Redditch	Delrene Motors, Brook Street, Lakeside, Redditch, B98 8NG	Mr A Williams and Mr T Williams	End of Life Vehicles Facility	0.5 < (0.14)	547	405293	267890	A19a
39.	Redditch	Motor Services Redditch Ltd, Haswell Road, Redditch, B97 6AN	Mr T Daxter	End of Life Vehicles Facility	0.6 - 1.0 (0.9)	1,437	403829	267996	A19a
40.	Redditch	Arrow Metals, Arthur Street, Redditch, B98 8JY	Arrow Metals	Metal recycling site (MRS) (mixed)	0.5 < (0.025)	260 ^a	405636	267242	A20
41.	Redditch	Polkacrest Waste Management, Alexandra Hospital, Woodrow Drive, Redditch, B98 7UB	Polkacrest Waste Management	Clinical Waste Incinerator	0.5 < (0.4)	8,379 ^d	406218	264695	A18
42.	Worcester City	Augean Treatment, Stanier Road, Shires Business Park, Worcester, WR4 9FE	Augean Treatment	Waste Transfer Station	0.6 - 1.0 (0.08)	3,775	387980	257310	A16
43.	Worcester City	Rainbow Recycling, Sheriff Street, Worcester, WR4 9AB	Worcestershire County Council (Learning and Disability Services)	Waste Transfer Station	0.5 < (0.024)		385939	255144	A11
44.	Worcester City	Blackpole Recycling Centre, Blackpole Trading Estate, Worcester, WR3 8TJ	Mr D Dew	Waste Transfer Station	0.6 - 1.0 (0.6)	21,786	386550	258111	A11
45.	Worcester City	UK Plant and Haulage, Unit 61 Blackpole Trading Estate	UK Plant and Haulage Ltd	Household commercial and industrial waste transfer station (A11)	0.5 < (0.16)	-	386487	257835	OPP
46.	Worcester City	Bilford Road (Worcester East) Household Waste Site, Perdiswell, Worcester, WR3 8PU	Mercia Waste	HWS	0.6 - 1.0 (0.7)	13,400 ^c	385540	257040	A13
47.	Worcester	Hallow Road (Worcester West)	Mercia Waste	HWS	0.5 <	4,682 ^c	383635	256578	A13

ID	District	Address	Operator	Facility	Size (ha)	Throughput (tpa)	Easting	Northing	Code
	City	Household Waste Site, St Johns, Worcester, WR2 6BZ			(0.5)				
48.	Worcester City	RKR Malmoco Used Car Spares Ltd, Sherriff Street, Worcester, WR4 9AB	Mr R Kerkhoven	End of Life Vehicles Facility	0.5 < (0.4)	535 ^b	385923	255038	A19a
49.	Wyre Forest	Waresley Quarry, Hartlebury Trading Estate, Kidderminster, DY10 4JB	Biffa Waste	Landfill	2.1 > (25.8)	125,000 ^b	385662	270196	A04
50.	Wyre Forest	Hills Waste Solutions, Blackstone Quarry, Bewdley Road North, Stourport-on-Severn	Hills Waste Solutions	Infilling	2.1 > (13.4)		379467	273422	A05
51.	Wyre Forest	Talbot, Summerway Landfill, Hillary Road, Stourport on Severn, DY13 9JP	Talbot	Landfill	2.1 > (6.9)	0 ^b	382915	273077	A05
52.	Wyre Forest	Talbot, Summerway Landfill, Hillary Road, Stourport on Severn, DY13 9JP	Talbot	Transfer station taking non-biodegradable waste	2.1 > (6.9)	170,000 ^b	382956	273026	A14
53.	Wyre Forest	Pencroft, Arthur Drive, Hoo Farm, Kidderminster, DY11 7RA	Mr C Rogers	Transfer station taking non-biodegradable waste	0.5 < (0.2)	20,000 ^b	383235	273938	A14
54.	Wyre Forest	ICL Environmental Services Ltd, Firs Industrial Estate, Stourport Road, Kidderminster, DY11 7QN	ICL Environmental Services Ltd	Waste Transfer Station	0.5 < (0.2)	23	381934	273363	A11
55.	Wyre Forest	Hills Waste Solutions, Lickhill Quarry, Bewdley Road North, Stourport-on-Severn, DY13 8RN	Hills Waste Solutions	Material recycling facility	2.1 > (2.7)	22,863	379102	272934	A15
56.	Wyre Forest	Wyre Forest Recycling Services Ltd, Sandy Lane Industrial Estate, Stourport-on-Severn, DY13 9QB	Mr Downes	Waste Transfer Station	0.5 < (0.4)	21,500 ^e	382151	270117	A11
57.	Wyre Forest	Lawrence's Skip Hire Yard, 10 Road 2, Hoobrook Industrial Estate, Kidderminster, DY11 5YS	Lawrence's Skip Hire	Waste Transfer Station	0.5 < (0.2)		383062	274973	A11
58.	Wyre Forest	Lawrence's Skip Hire, Forge House, Stourport Road, Kidderminster, DY11 7QE	Lawrence's Skip Hire	Waste Transfer Station (A11)	2.1 > (6.3)	-	381894	273681	OPP
59.	Wyre Forest	Green Street Depot, Green Street, Kidderminster, DY10 1HA	Wyre Forest District Council	Household commercial and	0.5 < (0.5)		383106	275912	A11

ID	District	Address	Operator	Facility	Size (ha)	Throughput (tpa)	Easting	Northing	Code
				industrial waste transfer station					
60.	Wyre Forest	Kidderminster (Hoobrook) Household Waste Site, Hoobrook Industrial Estate, Kidderminster, DY10 1LB	Mercia Waste	HWS	0.5 < (0.4)	7,000 ^b	383201	274796	A13
61.	Wyre Forest	Stourport (Bonemill) Household Waste Site, Minster Road, Stourport on Severn, DY13 8AA	Mercia Waste	HWS	0.5 < (0.5)	9,000 ^b	381642	272819	A13
62.	Wyre Forest	Kidderminster Car Dismantlers, Lisie Avenue, Kidderminster, DY11 7DL	Mr K Walton	Metal recycling site (vehicle dismantler)	1.1 – 2.0 (1.1)	81	382824	275215	A19
63.	Wyre Forest	Jones and Sons, Hoobrook Industrial Estate, Kidderminster, DY10 1HY	Mrs K Jones	End of Life Vehicles facility (A19a)	0.5 < (0.3)	(Max 5,200)	383100	274961	OPP
64.	Wyre Forest	Carmas 96, Hoobrook Industrial Estate, Kidderminster, DY10 1HY	Mr D Boraston	End of Life Vehicles facility	0.5 < (0.1)	632 ^h	383060	275013	A19a
65.	Wyre Forest	Potters Car & Vehicle Dismantlers, Sandy Lane Industrial Estate, Stourport on Severn, DY13 9PZ	Mr R Hall	End of Life Vehicles facility	0.5 < (0.4)	97 ^h	382107	270179	A19a
66.	Wyre Forest	7 TEK Ltd, Former Collins and Atkinson Site, Steatite Way, Stourport-on-Severn, DY13 8QT	7 TEK Ltd	Waste Electrical & Electronic Equipment	1.1 – 2.0 (1.4)		380289	272454	A11
67.	Wyre Forest	7 TEK Ltd, Stourport Road, Stourport-on-Severn, DY11 7QL	7 TEK Ltd	Physical treatment facility	1.1 – 2.0 (1.2)	12,000 ^b	382226	274031	A11
68.	Wyre Forest	Betts Envirometal (Stephen Betts & Sons Ltd), Park Street Works, Kidderminster, DY11 6TN	Betts Envirometal	Physical treatment facility	0.5 < (0.3)	25,000 ^f	382797	276590	A16
69.	Wyre Forest	I & R Plastic Recycling, Sandy Lane Industrial Estate, Stourport-on-Severn, DY13 9QA	I & R Plastic Recycling	Physical treatment facility	0.5 < (0.09)	1,300 ^g	382021	270239	A11
70.	Wyre Forest	Stevalex Plastic Recycling, Chaddesley Corbett, Kidderminster, DY10 4RE	Mr S and Mr A Yardley	Physical treatment facility	0.5 < (0.025)	240 ^b	388439	272676	A11

ID	District	Address	Operator	Facility	Size (ha)	Throughput (tpa)	Easting	Northing	Code
71.	Wyre Forest	OSS Group, Sandy Lane Industrial Estate, Stourport-on-Severn, DY13 9QB	OSS Group	Physical Treatment Facility (A16)	1.1 - 2.0 (1.2)	41,292	382021	270082	A16
72.	Wyre Forest	Kidderminster Bulk Storage, Hoobrook Industrial Estate, Kidderminster, DY10 1HY	Mercia Waste	Bulk storage for recyclables	0.5 < (0.2)	14,400 ^b	383144	274758	A11
73.	Wychavon	Hartlebury Quarry, Whittleage, Lane Hartlebury	Biffa Waste Services	Landfill	2.1 > (7.0)		385500	271000	A04
74.	Wychavon	Throckmorton Airfield, Ridgeway Ground Site, Long Lane, Throckmorton	DEFRA	Landfill	2.1 > (16.2)	0	397551	249146	A02
75.	Wychavon	Hill & Moor Landfill Site, Throckmorton Road, Lower Moor, Pershore, WR10 2PW	Mercia Waste	Landfill	2.1 > (130.1)	230,000 ^b	397091	248660	A04
76.	Wychavon	Hill & Moor Landfill Site, Throckmorton Road, Lower Moor, Pershore, WR10 2PW	Mercia Waste	MRF	0.6 - 1.0 (0.8)	10,200 ^b	396932	248343	A15
77.	Wychavon	Norton MRF, Area 7 Norton Business Park, Norton	Mercia Waste	Material recycling facility (A15)	2.1 > (2.35)	-	389108	251115	OPP
78.	Wychavon	Martin H Fernihough (MHF) Skip Hire, The Nathan Transfer Station, Evesham Road, Radford, Inkberrow, WR7 4LN	Mr Fernihough	Waste Transfer Station	1.1 - 2.0 (1.2)	3,086	400255	255389	A11
79.	Wychavon	Pete Bott Skips Ltd, Cleeve Road, Middle Littleton, Nr Evesham, WR11 8JT	Pete Bott Skips	Waste Transfer Station	2.1 > (2.4)	5,671	407512	246992	A11
80.	Wychavon	Pure Recycling, Offenham Road, Evesham, WR11 8DX	Pure Recycling	Waste Transfer Station	0.6 - 1.0 (0.8)	13,500 ^e	405705	244991	A11
81.	Wychavon	Hill & Moor (Pershore) Household Waste Site, Throckmorton Road, Lower Moor, Pershore, WR10 2PW	Mercia Waste	HWS	0.5 < (0.4)	7,800 ^b	396998	248281	A13
82.	Wychavon	Droitwich (Hanbury) Household Waste Site, Hanbury Wharf, Hanbury Road Droitwich, B60 4DA	Mercia Waste	HWS	0.5 < (0.3)	7,700 ^c	392550	263040	A13

ID	District	Address	Operator	Facility	Size (ha)	Throughput (tpa)	Easting	Northing	Code
83.	Wychavon	Hill & Moor Landfill Site, Throckmorton Road, Lower Moor, Pershore, WR10 2PW	Mercia Waste	Composting	1.1 - 2.0 (1.4)	25,000 ^b	397040	248484	A22
84.	Wychavon	Chapel Lane, Offenham, Evesham	Mr A Tustin	Composting (A22)		-	406431	245716	OPP
85.	Wychavon	Kingsmoor Farm, Cleeve Prior, Near Evesham	Mr M Rawlings	Composting facility	0.5 < (0.3)	0	408579	248996	A22
86.	Wychavon	Sims Recycling Solutions, Long Marston, Stratford-upon-Avon, Warwickshire, CV37 8AQ	Sims Commercial Metals	Metal recycling site (MRS) (Mixed)	2.1 > (6.5)	101,638	415357	245820	A20
87.	Wychavon	R & C Metals, Honeybourne Airfield Trading Estate, Weston Road, Honeybourne, WR11 7QF	Mr R Huckfield	Metal recycling site (MRS) (mixed)	0.6 - 1.0 (0.6)	3,086	411712	241989	A20
88.	Wychavon	Common Road Dismantlers, The Old Cherry Orchard, Common Road, Evesham, WR11 4PU	Mr R Hartwell	End of Life Vehicles facility	0.5 < (0.4)	825 ^b	404339	244337	A19a
89.	Wychavon	Evesham Auto Spares, Old Station Yard, Blackminster, Evesham, WR11 7TD	Mr Leahey	End of Life Vehicles facility	0.5 < (0.4)	583 ^h	407176	244918	A19a
90.	Wychavon	Individual Pet & Equine Cremation, Owl Hill Lane, Dunhampton, Stourport On Severn, DY13 9SS	Mr and Mrs Howell	Incinerator	0.5 < (0.09)	36 ^b	383711	266717	A18
91.	Wychavon	Stanford Highway Depot, Worcester Road (A449), Hartlebury, DY11 7XA	Worcestershire County Council	Physical Treatment	0.6 - 1.0 (0.9)	20,000 ^b	384524	271718	A10
92.	Wychavon	Estech Ltd, Hartlebury Trading Estate, Hartlebury, Near Kidderminster	Estech Europe Ltd	Physical Treatment Facility (A16)	2.1 > (3.6)	-	385908	269841	OPP
93.	Wychavon	Cleansing Services Group Ltd (CSG), Racecourse Road, Pershore, WR10 2EY	Cleansing Services Group Ltd	Waste Transport Depot	0.5 < (0.1)	-	395039	247771	WTD

^a Data for this site has been taken from the SLR Consulting Ltd database (2007). This database is based on information from the Environment Agency's RATS data and SLR Consulting Ltd's previous studies for the Regional Technical Advisory Body (RTAB) and Advantage West Midlands (AWM).

^b Data for this site is not recorded by the Environment Agency on the Waste Data Interrogator 2007. Data has been provided on requested by individual operators.

^c This figures were provided by the operator and are based on 2008 waste data returns. They update the information available on the Waste Data Interrogator 2007.

^d This site is a PPC site and no longer submits returns into RATS. Data is not available of the Waste Data Interrogator but is available on: http://www.environment-agency.gov.uk/static/documents/Research/ewincineration07_2149632.xls

^e Part of the operations on this site are exempt from Environment Agency permitting. In order to cover the full extent of the operations, data provided by operators has been used rather than that held by the EA. This information was given as an estimated range of throughput. For the purpose of this document the mid-point has been used to give an average throughput.

^f Part of the operations on this site are exempt from Environment Agency permitting. In order to cover the full extent of the operations, data provided by operators has been used rather than that held by the EA.

^g Data for this site is not recorded by the Environment Agency on the Waste Data Interrogator 2007. Data has been provided on requested by individual operators, this information was given as an estimated range of throughput. For the purpose of this document the mid-point has been used to give an average throughput.

^h Data for this site is not recorded by the Environment Agency on the Waste Data Interrogator 2007. Data has been provided on requested by individual operators; this information was given in terms of vehicle numbers. The Department of Trade and Industry (DTI) estimates that the average weight of a natural ELV scrapped in 2005 is put at 971kg². Vehicle numbers have been multiplied by 971kg in order to calculate a tonnage. Where ranges where given the mid-point has been used to give an average throughput.

² Defra (2007) *Waste Strategy for England Annex C10*

Summary of Meetings with Industry

The Council endeavoured to meet every waste business operating in the County to discuss the development of the Waste Core Strategy. The meetings took place on site; during these visits operators were asked about any issues currently faced, any future changes anticipated and were asked if there were any concerns which they would like to see addressed in the Waste Core Strategy.

Operators were identified from:

- Worcestershire County Councils records of planning permissions;
- The Environment Agency's records of Waste Management Licences or Permits;
- Contacts provided by other stakeholders.

The majority of known waste sites in the County were visited between September 2008 and July 2009, with only one operator declining a meeting. Details of the meetings are given ins, such as waste transfer stations, ELV sites and metal recycling sites, waste sources tended to be local. Although this did not always align with County boundaries, waste tended to come from either Worcestershire or adjoining local authority areas. Other sites dealing with more specialised wastes, such as clinical waste, airport tugs, x-ray film and waste oil, tend to operate on a national scale, with waste sources from across the country.

In general disposal of residue to landfill tended to be local, with the exception of hazardous materials, however destinations for recovery materials were more varied. In the case of metals, most recovery material is sent to sites in the West Midlands conurbation, some times via other sites in the County. For other recyclables, such as plastic, plasterboard and cardboard and paper, the majority of waste was sent out of the region for recovery, often with an international destination.

Table 3 and the key points are summarised below.

The main issues

The majority of operators felt that their existing sites were adequate in size, with several explaining that because they concentrated on quick turn over of materials they had little need for storage. There was however some concern expressed regarding the current slower market for recyclables necessitating increased storage at present.

There was some discussion about the wider market for the recycling of some materials; generally it was felt that although some markets were currently under developed they were likely to improve in the future. Despite this several operators noted that even with extensive recycling there will always be the need to dispose of some residual waste.

Almost all operators discussed the impact of increasingly stringent environmental requirements on their operations. For smaller businesses it was felt that such requirements impacted significantly on the viability of their operations, this was particularly the case with ELV sites. Most operators of small ELV sites suggested that if the cost of compliance increased then their sites may no longer be worth running. In general this was less of a concern for larger sites. Sites with a greater throughput appeared more able to meet with the costs involved. From observation of site operations it also appears that on smaller sites the de-pollution bays take up a larger proportion of the site, whereas in larger operations they are run alongside other associated operations on the rest of the site. It is possible that the environmental requirements might influence the future development of waste sites in the County and, if the suggestions made during the meetings play out, it is possible that smaller ELV sites will become less common and larger sites more so.

The most frequent and significant site issue raised involved relationships with residential neighbours. In many cases where this was a concern the sites had been used for industrial or waste management purposes before the adjoining land was developed for housing. Operators felt the proximity of residential neighbours impacted on their business, particularly in relation to working hours. On the other hand two operators suggested that a concentration of waste operators in one area was not desirable, especially where the road infrastructure was not well developed. Further site issues raised related to security, road access and on-site access to electricity.

Although waste sources varied, for the majority of smaller sites, such as waste transfer stations, ELV sites and metal recycling sites, waste sources tended to be local. Although this did not always align with County boundaries, waste tended to come from either Worcestershire or adjoining local authority areas. Other sites dealing with more specialised wastes, such as clinical waste, airport tugs, x-ray film and waste oil, tend to operate on a national scale, with waste sources from across the country.

In general disposal of residue to landfill tended to be local, with the exception of hazardous materials, however destinations for recovery materials were more varied. In the case of metals, most recovery material is sent to sites in the West Midlands conurbation, some times via other sites in the County. For other recyclables, such as plastic, plasterboard and cardboard and paper, the majority of waste was sent out of the region for recovery, often with an international destination.

Table 3: Summary of Meetings with Industry

This table provides a summary of the views expressed by site operators and it should be noted that the views summarised here are not necessarily those held by the council.

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
20.1.09 12:00	Westside Forestry Barry Kenward, Harbours Hill Belbroughton West Midlands <i>Site ID: 16</i>	<ul style="list-style-type: none"> Westside Forestry handles tree-surgeons' waste, bringing in and sorting out timber, much of which goes as wood chip to power stations. There is no residual waste from operations - what there is has been used to create internal roads. Mr Kenward's main concern stems from complaints received from a new neighbour (at 500m distance) who complains about noise from "chipping", despite the fact that operations had been taking place for many years before the neighbour arrived. Mr Kenward has planted many trees around the site. 	Forestry been located on site for 13 years; site is sufficient in size and there are no current plans to extend.	Wood and branches. 90% from within 10 miles. Some from Worcester, Coventry and occasionally Wolverhampton and other areas of the West Midlands.	95% as Wood chip to a power station in Staffordshire. Some sold as logs for fuel. Landscapers buy compost. Around 10,000 tonnes per annum.	None.
20.1.09 13:30	Quantry Lane Household Waste Site <i>Site ID: 12</i>	<p>A general discussion about all Severn/Mercia waste's sites in Worcestershire.</p> <ul style="list-style-type: none"> Residents permits must now be used to enter the sites at Redditch and Bromsgrove – this has led to a significant decrease in the volume of material being 	New composting site at Hereford will be 12ktpa if permission granted.			

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	<p>Severn Waste Services</p> <p>Ian Barber (Marketing Director), Jane Harthill (Worcestershire Area Manager)</p> <p>Off Money Lane, Romsley, Bromsgrove, Worcestershire, B61 0QT</p> <p>(All Severn Waste sites were discussed at this meeting, further visits to sites were carried out unaccompanied)</p>	<p>brought to the sites (proximity to Birmingham).</p> <ul style="list-style-type: none"> Currently at an intermediary stage of delivering their contract, before Norton plant opens, meeting LATS targets for residual waste by diverting to out of county Energy from Waste plants, mostly at Coventry and Wolverhampton. EfW sites don't want anything other than "black bag" waste as other items affect the running of the plant and possibly their emissions. Also have the challenge of meeting Landfill Directive targets to reduce biodegradable waste to landfill by 2015. Wyre Forest's MSW currently goes to the Biffa site. Bromsgrove and Redditch MSW goes out of county. Worcester City, Wychavon and Redditch all to Hill and Moor. Until the Norton plant is commissioned (should be end of 2009), co-mingled materials are being bulked at Bromsgrove, Kidderminster and Redditch and sent out of county for processing. Norton should start processing about 60-70,000 tonnes per annum (working up to the maximum). 	<p>Looking into the possibility of a new composting site in the north of Worcestershire, expanding the capacity at Hill and Moor.</p>			

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<ul style="list-style-type: none"> 105,000 tonnes towards the end of WCS period). The MRF at Hill and Moor will then close, possibly become a WTS instead. Hill and Moor facilities (MRF, HWS and composting) are all time-limited to the life of the landfill. Composting – arisings (Herefordshire and Worcestershire) are now in the region of 38ktpa but capacity at Hill and Moor is only 25ktpa. New site at Hereford will be 12ktpa if permission granted. Looking into the possibility of a new composting site in the north of the county or expanding the capacity at Hill and Moor. Household Waste Sites are now achieving around 70% recycling and it is very difficult to improve that further. Mr Barber suggested that we should be considering the provision of a Hazardous landfill in the county. He also suggested that the Spatial Portrait should be concerned solely with the geography of the county and not attempt to suggest policies. 				
20.1.09 14:30	Wildmoor Waste Management John Williams Wildmoor Quarry,	<ul style="list-style-type: none"> Wildmoor's Waste Transfer Station is now rented out to Redditch Skips. therefore much specific information was not available from Mr Williams. The site has been mothballed for a few months due to the economic downturn (Redditch Skips are just using their Weights Lane site). 	No current plans to expand. No need for additional land.	General inert waste, cardboard, brick, wood - from skip hire and roll on and	Wildmoor's Waste Transfer Station is now rented out to Redditch Skips, therefore this	Wildmoor's Waste Transfer Station is now rented out to

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	Sandy Lane, Wildmoor, Bromsgrove, Worcs, B61 0QT <i>Site ID: 7</i>	<ul style="list-style-type: none"> Mr Williams stated that the economic downturn has severely affected waste management businesses. It could have an impact on landfill if recyclates are not being bought. 		off Stourbridge, Bromsgrove and south Birmingham.	information was not available from Mr Williams.	Redditch Skips, therefore this information was not available from Mr Williams.
20.1.09 15:30	Bromsgrove Bulking Bays Severn Waste Services Aston Road, Aston Field Industrial Estate, Bromsgrove, B60 3EX <i>Site ID: 8</i>	<ul style="list-style-type: none"> No Comments 	No need for additional land.	Municipal collected waste in demountable mobile compactor units (16,200tpa). Kerbside collected dry recyclables; paper, card, textiles, glass, cans, plastic bottles (13,000 tpa) Bromsgrove District and Worcester City	Hill and Moor or out of county MRF for commingled recyclates.	Landfill at Hill and Moor or out of County EfW facility.
27.1.09 10:00	Sandy Lane, Veolia	<ul style="list-style-type: none"> Sandy Lane Landfill currently has approximately 650-700,000m³ of void space remaining. It is a 	There is no potential to expand the	Birmingham, Redditch, Bromsgrove,	Not applicable	Not applicable.

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	Rob Pooler Sandy Lane Landfill, Sandy Lane, Wildmoor, Bromsgrove <i>Site ID: 15</i>	highly engineered and lined site with a cell for inert waste to the east (not yet being filled). There is still a very small amount of sand extraction taking place to the west of the landfill and some of this is used as an extra protective layer against the landfill liner. <ul style="list-style-type: none"> Input to the landfill has gone down around 30-40% in the last 3-5 months (less waste coming from builders, skips, carpet industry due to economic downturn). Now filling at a rate of approx 100,000 tonnes p.a. (licensed to 200,000tpa although never filled at that rate). Estimates around 7 years lifetime remaining. Planning permission was granted for open windrow composting on the site but this has not been implemented as the finance is borderline. Veolia considering looking at in-vessel rather than open windrow, depending on viability. The site has seen an increase in requests for disposal of bottom-ash etc, residues from alternative waste disposal methods. Technology now available (though not in place at Sandy Lane) to fit GPS to the compactor to give readouts of compaction rates by co-ordinate, allowing the driver to know where to concentrate more effort. Achieving just over 1 tonne per cubic meter (average), and with compaction rates up to 1.3-1.4. Tree roots and mattresses are the most difficult 	landfill site but settlement has been greater than expected, so there may be the possibility to make use of this extra air space by expanding the landfill back to the originally modelled levels. Planning permission has been granted for open windrow composting but the finance is borderline. The site is close to an aquifer so no potential for a hazardous waste cell at this site.	Stourport, Kidderminster, Dudley and some from Worcester and Hereford.		

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>wastes to deal with as they do not compact and can cause problems for the machinery.</p> <ul style="list-style-type: none"> Leachate goes to a holding lagoon and gas to onsite generation plant. 				
27.1.09 11:30	<p>A-Z Skips</p> <p>Mr Banham</p> <p>Metals & Ores Trading Estate, Stoke Prior, Bromsgrove</p> <p>Site ID: 9</p>	<ul style="list-style-type: none"> Mr Banham felt there was a serious gap in communication with the Council's waste management service. He feels he could offer a service but has been unable to speak to the right person. There is currently little money being generated by recyclates and storage is a serious issue – companies will not pick up under 20 tonnes. Mr Banham suggested that a solution might be to reduce/remove "rates" on storage for recycling as rates are currently on a par with rent (around £20,000pa). Making into bales is where the items gain a value but this is a tiny proportion of the space needed. The company has to charge to take waste because of costs incurred including time, fuel, machinery upkeep and investment. Also recyclers will not pay a lot for the materials because they know they are preferable to paying landfill costs. This situation will not improve unless there is an end product for the recyclates and this is missing at the moment. Mr Banham feels that they are doing everything they can, e.g. concrete hard standing, collection of surface drainage, but they always come up against 	<p>The site could benefit from the improvement of the road infrastructure e.g. A38 all dual carriageways. Greater storage space is needed (particularly in the current economic climate when the price of material has fallen, making it difficult to dispose of) without the high Council tax rates.</p>	<p>Non-hazardous Household, Commercial and Industrial Waste.</p> <p>Worcestershire</p>	<p>Cardboard, wood, green waste, plastics, soil, concrete/brick.</p>	<p>Local landfill</p>

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>problems with Environment Agency or Planning Permission – he feels this is contradictory to government policy to meet recycling targets. National and local government need to decide if they support the recycling business or not and, if so, support them against the “not in my back yard” mentality.</p> <ul style="list-style-type: none"> Road infrastructure improvements would also help – currently any problems on M5 or M42 mean gridlock in Bromsgrove. Why is A38 only partially dual carriageway? Mr Banham didn't feel that itemising land would solve any of the financial problems. New industrial estate land is expensive so the same problems would be faced. 				
27.1.09 14:00	<p>Bilford Road Household Waste Site</p> <p>Severn Waste Services</p> <p>Bilford Road, Perdiswell, Worcester, WR3 8PU</p> <p><i>Site ID: 46</i></p>	<ul style="list-style-type: none"> Bilford road was refurbished and reopened November 2006. The staff there felt it was almost an ideal site and had taken into account lessons learnt at all the sites. Allows lorries to come in and move skips in the centre without mixing with the public (who are around the edge). Only problem is that traffic queues down the public highway but staff see little way to resolve this. Both this site and Hallow Road have seen an increase in specialised waste bins. 	The staff at Bilford Road identified no future development needs for their site.	Local residents and some commercial trailers.	<p>Textiles, shoes, paper, cardboard, batteries, electrical items, green waste, glass, plastic bottles, cans, scrap metal, soil, rubble, wood timber.</p> <p>9,500 tpa (71%)</p>	<p>Mixed waste to Hill and Moor Landfill site.</p> <p>3,900 tpa (39%)</p>

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
27.1.09 14:45	Hallow Road Household Waste Site Severn Waste Services Hallow Road, St Johns, Worcester, WR2 6BZ <i>Site ID: 47</i>	<ul style="list-style-type: none"> Hallow Road is an unimproved site and the main problem the staff identified is with security, the outer fencing being too flimsy to keep people out and often finding that skips have been broken into, especially when the site is closed over the weekend. The site may be suitable to be refurbished along the lines of Bilford Road, with the skips being set lower than the surrounding ramps to allow waste to be dropped in rather than carried up steps as currently happens. It has seen an increase in specialised waste bins The site contains a bin for recycling cartons (tetra packs). These are currently under trial in the County. 	Hallow Road site has recently put in a planning application for a higher fence around the site in order to prevent burglary and criminal damage from occurring when the site is not open.	Local residents and some commercial trailers.	Textiles, shoes, paper, cardboard, batteries, electrical items, green waste, glass, plastic bottles, cans, scrap metal, soil, rubble, wood timber. 3,400 tpa (75% of total)	Mixed waste to Hill and Moor Landfill site. 1,100 tpa (25%)
3.2.09 10:00	Blackpole Recycling David Dew & Ian Vauxhall Blackpole Trading Estate West, Worcester, WR3 8TJ <i>Site ID: 44</i>	<ul style="list-style-type: none"> Blackpole is the only Waste Transfer Station in Worcester Town. It has 500 skips and 50 roller bins. Deals with a lot of crushed materials; have crusher on site. Waste from Severn HWS (Upton, Welland, Hanbury etc, not usually Stourport and Kidderminster Hill and Moor) Take 40-50 skips on a good day. They accept commercial waste over weighbridge so long as they have a waste carriers licence. They do not think the county needs more Waste Transfer Stations as they can cope with all Worcestershire's building waste, if more stations 	There are no current plans to extend this site. However, they have applied for planning permission for a large building on site which they intend to use for grading and sorting of material. They	Builders waste, construction/ demolition, non-hazardous waste, mixed general/ commercial. Worcestershire and 20 mile radius.	Wood 237tpa, metal 301tpa, cardboard 154tpa, plastics 127tpa, hardcore 1272tpa, soil and hardcore 4818tpa.	General Waste (treated). Waresley/ Hartlebury landfill.

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>were to open they would struggle to make a living.</p> <ul style="list-style-type: none"> • Current licence 24,599 tonnes per annum. Could cope with more waste – currently looking at putting new building to up licence. Building to be used for grading and sorting, containing big machinery. They are exempt on soil and hardcore. May look at hazardous in a few years; big money in asbestos but £20,000 per year for a licence. • EA makes problems; legislation & different laws are difficult. Planning Permission was ok. • Until grading of materials is enforced people will tip materials. • Skip hire is all about service; nothing flash here but making a good living. • Would like to recycle more but there is no outlet/profit to be made e.g. nearest plasterboard recycling is Telford, Rotherham or Cardiff. • If they could give materials away they would save £50 instead of tipping, but can't even give it away at moment due to current economic climate. Plastic is the worst material to dispose of at the moment due to high costs. 7tec used to take plastic but stopped last year. Nearest place to take plastic window frames is Manchester. Worcester not big enough to generate enough quantity to warrant recycling plastic therefore plastic also going to the tip. • Where will waste go when Biffa 	<p>propose to have large machinery in the building to undertake these processes.</p> <p>They may look at dealing with hazardous waste in a few years, although the licence is £20,000 per annum.</p> <p>They believe there is no requirement in the County for another Waste Transfer Station.</p>			

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>(Waresley/Hartlebury) is full? They suggest that incineration is the only answer, state that the public need is greater in order to override public objection. Incineration needs to take commercial waste; scrap price is back up but cardboard still down (£35 per tonne used to be £65 per tonne).</p> <ul style="list-style-type: none"> Waste soil that comes in is contaminated with glass & ceramics. Risk of claim against you is too great so goes either to inert tip or Biffa landfill at Hartlebury. Severn Waste put the tipping price of soil up from £2 - £15.50 per tonne recently. Storage not much of an issue as waste comes in and goes more or less straight out again to the tip mostly. Indoor storage for cardboard bails to keep dry could be useful. Spends a lot of money on punctured tyres from the tip. 				
3.2.09 11:15	<p>Augean Treatment</p> <p>Karen Portwood</p> <p>Stanier Road, Shire Business Park, Wardon, Worcester, WR4 9FE</p>	<ul style="list-style-type: none"> Hazardous Waste Transfer Station permitted to accept anything except radioactive waste and explosives. No odour or pollution issues. Augean Treatment has 2 divisions – landfill (hazardous & non-hazardous) and waste treatment. Tries to move between own sites but sometimes uses other sites as well. The company is ever changing and growing but heavily regulated. Accepts solvents, oils and plastics in IBCs and drums. Element of non-hazardous e.g. resins, some paints, packaging. 	There are no plans to extend the Augean Treatment facility within the Strategy period, as the site is compact, sufficient in size and fit for purpose.		<p>If oil is suitable for reuse it is sent to Liverpool to be used as fuel, any leftover sent to West Bromwich.</p> <p>Wastes are transported all over the country</p>	<p>38,000 tpa waste oils and 18,000 tpa various hazardous materials.</p> <p>Non-hazardous waste goes to Waresley</p>

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	<i>Site ID: 42</i>	<ul style="list-style-type: none"> 9 vehicles – tankers and flatbed. Pick up waste & receive third party articles. Very quick throughput. Storage can only store 2 high now with 1 metre spacing for walk through. But licence does allow to keep waste for up to 6 months as they often have to wait for booking slots to dispose of waste. Very ordered & organised site due to legislation. Often easier to run than a non-hazardous site. Chemist on site to check waste inputs. Segregate wastes to bays, fully banded. Whole site banded and batch discharge consent. Has oil collection and storage but does not process on site. Can crush and shred on site (sent to EMR Birmingham) and shred plastic containers. Wash plant water recycle for drums, when used enough sent to Cannock. Augean currently designing “Waste Recovery Park” at Port Clarence in the North will have all types of treatments close together. Need to move towards this type but probably won’t happen in Worcester. Built 1996/7 with 24hr CCTV and a sufficient capacity. 			for processing, mostly reclamation and recycling. E.g. Solvents to Avonmouth; Acids and caustics to Cannock for neutralising.	– 1 skip per fortnight
3.2.09 13:30	Biffa Landfill Site – Waresley & Hartlebury	<ul style="list-style-type: none"> Long life span left at landfill sites. Void space will be worth more in 10 years time when there is little left. Company has 1 Hazardous cell at its Leamington 	Biffa (Waresley & Hartlebury) has no firm plans for future	Domestic waste, Commercial & Industrial waste and inerts.	Not Applicable	Not Applicable

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	<p>Russell Parrat</p> <p>Unit 100, Behind Baggeridge Bricks, Hartlebury Trading Estate, Hartlebury, Nr Kidderminster, Worcestershire.</p> <p><i>Site ID: 49 and 73.</i></p>	<p>Spa site.</p> <ul style="list-style-type: none"> • Municipal waste from Wyre Forest (25% input) C&I (65%) – some direct, some transfer (15% C&I) and some inert (10%) + soils (used for cover). • Nowhere for residues from pre-treatment at the moment. • Inert used across the whole site. Amounts of inert needed will reduce as site is reclaimed. • Will always need landfill e.g. Japanese knotweed can only be buried. • Has looked at front end sorting but with lots of small operations nearby it may be better to operate with a third party. • Have to act strategically, incineration maybe best option for the future. People have knee jerk reaction. • A changeable time for waste technologies. Biffa is considering waste as energy resource/fuel. (Estech Autoclave is not an advanced technology). Biffa looking at AD and incineration/gasification but would need to tailor plant to feedstock. • Landfill has changed a lot in last 15 years – more responsibility and regulation. • Lawrence's, once up and running, will have enough capacity for the area, so no need to transfer waste at this site. But could have a facility here for wastes or residues that would have gone to Estech. VERY DEPENDENT ON BIFFA PLANS/COMPETITOR 	<p>development as yet.</p> <p>No hazardous cell at Waresley but potential exists for 1 at Hartlebury possibly for asbestos (provision in permit).</p> <p>Estimated 6 months of infilling left at Waresley, Hartlebury will have 10 years then will return to Waresley where 20 years` life expected.</p>	<p>Worcester, Kidderminster, Droitwich, Redditch, Bromsgrove (Worcestershire 97%; West Mids conurbation 1.3%; Herefordshire, Gloucestershire, Shropshire & Others 1.7%)</p>		

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>IDEAS/PLANS.</p> <ul style="list-style-type: none"> • Need an element of tie in with planning when developing ideas and plans, wishes to keep the planning department in the loop. • Broad site licence/permit so not really anything else they could take that they don't already. Maybe soil treatment? But needs market research first. Maybe more suitable in the Black Country. 				
3.2.09 15:00	<p>Droitwich Household Waste Site</p> <p>Severn Waste Services</p> <p>Hanbury Road, Hanbury Wharf, B60 4DA</p> <p><i>Site ID: 82</i></p>	<ul style="list-style-type: none"> • Modern site • Ample Room • Good sweeping road into site around previous landfill gives allowance for queuing traffic into site. 	None	Local residents and some commercial trailers.	<p>Textiles, shoes, paper, cardboard, batteries, electrical items, green waste, glass, plastic bottles, cans, scrap metal, soil, rubble, wood timber.</p> <p>5,100 tpa (66%)</p>	<p>Mixed waste to Hill and Moor Landfill site.</p> <p>2,600 tpa (34%)</p>
10.2.09 10:00	<p>Common Road Dismantlers</p> <p>Richard Hartwell</p> <p>The Old Cherry Orchard,</p>	<ul style="list-style-type: none"> • End of Life Vehicle (ELV) Site. Been on site for 10 years. • Market fluctuations an issue. • Biggest problem is battling with the EA. They need concrete guidelines & need to stop changing guidelines all the time in order for the waste industry to progress. 	<p>No plans for expansion. Own field next door if ever they wish to expand.</p> <p>Would like a</p>	<p>ELV and Scrap metal</p> <p>Evesham, Worcester, Tewkesbury, Studley, Morton-</p>	<p>Metal to EMR Birmingham</p> <p>Batteries to GP Birmingham</p>	

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	Common Road, Evesham, Worcestershire, WR11 4PU <i>Site ID: 88</i>	<ul style="list-style-type: none"> EA always wanting more, they put up a new fence etc but doesn't seem good enough. Operator not in favour of landfill and does everything he can to recycle as much as possible. MSW from the site is the only thing that goes to landfill. Everything else is recycled. Focus on quick throughput. They de-pollute then send metal on. Good advertising brought more business to the company; full page in the Evesham Journal got 50% more business - from the fire college. Have contracts with SPS, SAS, and MOD. EA have problems with drainage. The operator asked Broadway homes (new development at end of Common Road) if they could link to their drainage but would not agree. At present use an interceptor then soak away in nearby field. They have problems with people leaving oil and batteries outside of the gates. 	sign put up directing people to the site: mentioned problems with Worcester City Council regarding this.	on-Marsh, Bourton on the Water, Malvern		
10.2.09 11:30	Pete Bott Skips Ltd Peter Eric Bott Lydstep, Cleeve Road, Middle Littleton, Nr Evesham,	<ul style="list-style-type: none"> Very neat & tidy WTS. EA pretty fair to them, class them as 1 of top 10 in the County. 400 skips/ 60 permanent hire (go out & swap) Compactor used to reduce capacity in the skips Want to recycle but in the current climate there is no outlets. Price of materials has drastically fallen. Backlog of cardboard - price gone from £40 per tonne to £2 per tonne in 6 – 8 months. 	They have plenty of room (6 acre site) to expand but have no plans to at present.	Soil, hardcore, iron and steel, cardboard, green waste, general waste. Collect from Gloucestershire, Warwickshire	Soil used at Hill and Moor for landfill cover and hardcore is used to make roads on the landfill. Metal - DJ	General Waste (20% of throughput) All plastic. Hill and Moor

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	Worcestershire, WR11 8JT <i>Site ID: 79</i>	<ul style="list-style-type: none"> 95% of the waste (metal, cardboard, wood, green waste) they receive is sorted by hand. Waste soil is used by Hill and Moor for cover, as it is not in a proper condition to sell. Have sold small amounts before & wish to get into this in the future but at present the soil is too dirty. Welcome as much waste of any type as possible. Take electric motors/aluminium, gas bottles. Difficult to get rid of gas bottles. High environmental charges - £10,000 to concrete the site (required by the EA) Waste wood is difficult to dispose of, used to take to the West Midlands for chipping. Sell batteries Have problems with security, thief's cutting down fences & trees to steel cooper wire & petrol from vans. Wood their biggest input. Have thought about chipping to be used as cover at landfill sites. If landfills use woodchip for cover the landfill tax is less than actually landfilling wood. Prices are fluctuating all the time so must keep on the ball. 		and Worcestershire	<p>Craddocks, Redditch or RC metals, Honeybourne.</p> <p>Cardboard-Paper Nation, Offenham.</p> <p>Green waste – Hill and Moor for Composting</p> <p>Waste wood sold to company for engine fuel and taken to West Midlands for chipping.</p>	
10.2.09 12:30	Evesham Auto Spares Mr Leahey	<ul style="list-style-type: none"> Process ELV Input of 607 cars in 2008 EA don't cause them any particular problems Been on site 25 years 	Site is sufficient. No more land required	ELV Local to Evesham	<p>Parts - EMR, Birmingham.</p> <p>Oils and fluids antifreeze - OSS</p>	No waste to landfill.

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	Old Station Yard, Unit 3, Blackminster, Evesham, Worcestershire, WR11 7TD <i>Site ID: 89</i>				group in Knowsley. Batteries and Tyres - Wolverhampton,	
10.2.09 14:30	Cleansing Services Group Ltd Kevin Carter Racecourse Road, Pershore, Worcestershire, WR10 2EY <i>Site ID: 93</i>	<ul style="list-style-type: none"> Used to have a closed disposal site in Evesham but due to EA regulations and the expense of regulating to guidelines they closed the site. Current site is purely used for parking the HGVs, which transport the waste out of the County to treatment plants. Focus on quick throughput. Been at current site for 3 years. Collect waste from a 60-mile radius (Gloucestershire, Herefordshire & Worcestershire), send mostly to Severn Trent. Dependent on Severn Trent having facilities - so they can dispose of the waste. Deal with lots of waste types. Competition - waste carriers that specialise in certain types of waste. Like to keep business in-house, usually transport to in-house treatment works. Company is looking into soil injection. 	Site is more akin to a transport depot than a waste treatment site. Materials (waste water/sewage etc) are collected and transported elsewhere. Any storage undertaken is in vehicle overnight and reflects driver rounds rather than any waste related issues. No current plan	Domestic sewage (837,189 gallons in 2008) Industrial oil/water wastes and other industrial waste liquids (2,280,710 gallons in 2008)		

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
			<p>to expand.</p> <p>Possible that if fleet size was to increase then a bigger site would be required.</p> <p>Current site is on lease.</p>			
17.2.09 10:00	<p>Redditch Household Waste Site & Bulking Bays</p> <p>Severn Waste Services</p> <p>Crossgates Road, Park Farm North, Redditch, Worcestershire, B98 7SN</p> <p><i>Site ID: 34, 36,</i></p>	<ul style="list-style-type: none"> No Comments 	Adequate for foreseeable future	Local Residents and some commercial trailers.	<p>Textiles, shoes, paper, cardboard, batteries, electrical items, green waste, glass, plastic bottles, cans, scrap metal, soil, rubble, wood timber.</p> <p>7,300 tpa (63%)</p>	<p>Mixed waste to Hill and Moor Landfill site.</p> <p>4,200 tpa (37%)</p>
17.2.09 11:00	Associated Commercial Dismantlers	<ul style="list-style-type: none"> Site has been there since the 1970's. Receive scrap cars and scrap from factories, 	Current site is 2 acres and sufficient. Site is	ELV and scrap metal	Metals - EMR, Birmingham.	

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	(ACD) Mr Robbins Highpark Wood Alcester Road, Beoley, Redditch, B98 9DT <i>Site ID: 19</i>	businesses etc. <ul style="list-style-type: none"> Wishes to clear and open site up, possibility of having another workshop at back of site. They have 1 dismantling shed which is enough. No waste goes to landfill; metals to EMR, tyres to Birmingham shredders, Polish buy part used tyres and Oils to company in the Midlands. Plans to stay at the site for 10 years then consider position; possibly sell up. Market has changed, turnover is important not storage. 	likely to reduce rather than expand.	Midlands, including Birmingham, Stratford, Redditch and Worcester.	Batteries and oils - a company in the midlands.	
17.2.09 12:00	Portway Motor Services Mr Chambers Old Alcester Road, Portway, Birmingham, B48 7HX <i>Site ID: 17</i>	<ul style="list-style-type: none"> Only rent part of the site now due to lack of custom. Collect abandoned cars for the Councils and take in cars. Have just won council contract with Redditch, Bromsgrove, Worcester & Wychavon to collect abandoned vehicles. Used to collect 30-40 abandoned per month now collecting 3 (Redditch) Used to sell spares and stock 600 cars but the market has changed; new cars are cheap to buy so people don't repair their old car like they used to. Turnover is the most important thing. Cars should have a longer lifespan but are getting scraped when 10 years old nowadays. Site has dismantling shed – 3 bays 25 cars are de-polluted per day. EMR (Birmingham) take everything & often buy the 	Now only occupy a small section of the site due to lack of custom. Could expand back into the rest of the site as it is still licensed.	ELVs Worcestershire	EMR, Birmingham	

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		cars complete.				
17.2.09 13:45	Delrene Motors Alan & Tony Williams Arrow Road North, Redditch, B98 8NT <i>Site ID: 38</i>	<ul style="list-style-type: none"> Processed ELV. Licensed Waste Carrier. The site has been there since 1960s. Own the lands so can move/change the business if needed. Site is sufficient, they have downsized as do not need storage for spare parts anymore. If they invested in a crusher (an enormous investment £1million) they would need the land, this is a minute possibility. Think the EA are not policing properly as unlicensed people are still dealing with scrap and loosing them business. Scrap is the main income. Nothing to landfill, make owners empty cars first so not dealing with MSW. Believes that government targets are fictitious. Car companies – www.cartakeback.com network. Manufacturers recommend ATF. Companies don't want any scrap back. 	Size of site is sufficient. No plans to expand perhaps reduce. Own site next-door as well so have enough room if they ever wanted to expand.	ELVs Approximately 20 mile radius including Worcester, Stratford, Coventry, Birmingham and Malvern. This area has expanded over the last 10 years as they have been getting less cars.	Oils - Feakins Kidderminster Tyres - Waste Tyre Solutions or EMR or sold privately Batteries - HA Masons, Brierley Hill.	
24.2.09 10.00	Ridgeway Ground, Throckmorton Defra Steve Guest	<ul style="list-style-type: none"> Foot and Mouth Disease (2001) carcass disposal site. 6 cells containing 130,000 carcasses, all from secondary zone in local area. The land is leased from Qinetiq on a 25 year lease with an option for a further 25 years, currently about 6 years into the lease (land was originally DEFRA at the time of FMD outbreak). 	May apply for planning permission for on-site treatment plant to reduce need to transport	Leachate		Sewage Treatment Works, Hereford (second site at Newport if needed)

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	Ridgeway Ground Site, Long Lane, Throckmorton <i>Site ID: 74</i>	<ul style="list-style-type: none"> The cells have pumps to extract the leachate to tanks. Total of 17 pumps with 30 monitoring boreholes outside the cells. The initial estimate was that it would be about 15-20 years before the site became inert but this is under review and may take longer. Defra owns some adjacent land but the area used was picked due to better geology (eg clay for lining) Halcrow act as consultants, report to the EA; Kier Managed Services Ltd currently manage the site but this is due to change to Interserve soon (10-15 year contract for all Defra sites); Oran conducts tests for ammonia discharge; Biffa takes office waste. Leachate is classed as a non-hazardous product An average of 4-5 tankers per week in winter and 1-2 in summer (30,000 litre tankers. Average 6,000m³ per year). Leachate is now quite dilute though, due to flukes of water table and construction, some cells produce more than others. Even massive rainfall doesn't affect quantities too much as there is a separate drainage system for surface runoff. Defra has stated that the site would not be used again for mass burial, should another disease outbreak occur, though there may be other contingency plans. There is a long-term plan to install on-site treatment 	leachate. Own/lease sufficient land.			

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		plant, then only the sludge would need to be transported for treatment off-site.				
24.2.09 11.30	MHF Skip Hire Martin H Fernihough The Nathan, Evesham Road, Radford, Inkberrow, Worcs, WR7 4LN <i>Site ID: 78</i>	<ul style="list-style-type: none"> Skip waste from all industries – sort a bit although majority that the site receives now is “crud”. No haz-wastes. Deal mostly with business wastes rather than private houses or many builders. Businesses are more reliable and are more likely not to mix wastes which shouldn’t be mixed. Crush brick rubble with a minimiser, sort scrap and steel and have an outlet for wood waste. Thinks that the government has it all wrong, there’s too much transport and too much packaging involved and supermarkets should be leading the way to reduce this. E.g. deposits on bottles as happened in the past could encourage people to return used bottles to the shop when they go to buy more. Thinks there should be tax relief for companies which use recycled materials in their products as nobody currently wants recycled materials, there’s no money in it. Thinks that people will begin to fly tip / bury waste anywhere as there is no money in transporting and recycling it and it is expensive to landfill it. Does not want to invest in shredding machinery to increase tonnages for transport as they can be expensive to maintain, have problems and cause 	MHF has enough land for business needs, especially as business is bad at the moment, but owns additional land if did want to expand.	<p>Mainly business skip waste & some builders: Wood, brick, soil. All non-hazardous.</p> <p>Stratford, Worcester, Droitwich, Bromsgrove, Pershore and majority from Evesham and Redditch</p>	<p>Metal, wood, brick, soil.</p> <p>Metals to EMR in Birmingham or Craddocks in Redditch,</p> <p>Wood - burners for heating water.</p> <p>This is about 10% of total.</p>	<p>Mixed residual waste.</p> <p>Landfill: Hartlebury or Hill and Moor.</p> <p>About 90% of total.</p>

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>issues such as noise and dust.</p> <ul style="list-style-type: none"> • Feels that the Environment Agency is like a “brick wall” – they are not helpful when asked for advice, are hard to deal with and are invasive, with around 4 visits per month. • Skip hire and the waste industry is dying – England is too tidy! Nobody has hordes of rubbish any more – also old items are often taken away when a new one purchased now (e.g. cookers). • Lots of little specialists collect all the “good” bits of wastes, meaning the left-overs that go to skips are now low grade with very little salvageable. • Site surrounded by hedges for concealment. 				
10.03.09 10.00	<p>Stanford Highway Depot</p> <p>Dave Rowley</p> <p>A449 Worcester Road, Hartlebury, Near Kidderminster, Worcs. DY11 7XA</p> <p><i>Site ID: 91</i></p>	<ul style="list-style-type: none"> • 20,000 tonnes a year is the amount of waste handled through highway arising, this material is suitable for recycling. • Recycled into the highways of Worcestershire as MOT Type 1 – 10,000 tonnes and Foambase – 10,000 tonnes. • Do not process third parties waste - financial success is based on controlling the input of good material. • Crushing and screening are both done on site. • Have a capacity to do more waste handling, as the site is easily adequate for their needs. • Type of products produced is Foambase this is a substitute for tarmac – they add bitumen to this to make the product. This is a seasonal operation, as it is susceptible to water. The first batch will begin in a few weeks. This operation will produce 	<p>None, adequate space to develop whatever facilities may be necessary. Likely to increase recycling activity.</p>	<p>Highways arising.</p> <p>Worcestershire.</p>	<p>Foambase (a substitute for tarmac).</p> <p>Type 1.</p> <p>Recovery takes place on site.</p>	

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>1,500 to 2,000 tonnes at a time.</p> <ul style="list-style-type: none"> Handling gully arising in the future is believed to be key in the future as Worcestershire County Council do not have a facility currently to handle gully arising and have to go to a commercial handler. When they do handle gully arising, it will be on a scale of 5,000 tonnes a year, this needs to be dewatered (dried) then they will add green waste that will be shredded and this will produce a low grade soil. This is likely to take place at the Leigh Depot. Currently gully waste is taken to a licensed disposer in Warden. Produce black top for pavements from recycling old black tops, and looking into introducing plastic containers into this. Only other waste goes into depot skips such as plastic containers and litter. Use of mobile Infrared patching recycling plant in situ is being test for one year and then use is expected to become much more widespread. 				
10.03.09 11.00	<p>Pencroft (Transfer Station)</p> <p>Cliff Rogers</p> <p>Arthur Drive, Hoo Farm Industrial Estate, Kidderminster</p>	<ul style="list-style-type: none"> Waste from construction and demolition sites. If the waste has about 50% hardcore or more in then they will collect it. Produce two products, large hardcore and fine class 2 general fill material. Handle waste soils and this is screened and added/turned into class 2 general fill material. If material gets very wet though it has to go to the tip. Steel waste goes in the skip and the wood and plastic is taken out by hand and this goes to landfill. 	Have screener and currently a crusher (this is only allowed for 28 days a year, but are in the process of seeking planning permission to extend this to be			

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	<i>Site ID: 53</i>	<ul style="list-style-type: none"> Have exempt tip to get rid of soil. Have a throughput of about 20,000 per year. Collect and sell waste to anywhere that is economically viable so mainly Droitwich Spa, Kidderminster, Stourport, Worcester and if it is good quality then they will even go to Malvern for example. Believe in the future more advantageous people will get involved will waste transfer and believe more and more sites in the future will be required. 	<p>unlimited use of the crusher).</p> <p>Are short of space which compromises the type and quality of material they can produce.</p> <p>They see themselves staying here at least 10 years but shortage of space could make them move.</p>			
10.03.09 12.00	<p>Carmas 96 (Vehicle Dismantling)</p> <p>David Boraston</p> <p>Plot A, Hoobrook Industrial Estate, Kidderminster, DY10 1HY</p> <p><i>Site ID: 64</i></p>	<ul style="list-style-type: none"> Long established breakers yard Buy in scrap cars from members of the public, garages, insurance companies, untaxed cars and through Rogers Rescue. Are open to the public. Drain off oil, petrol, diesel, and all liquids (the cars are de-polluted). Is concerned over the amount of illegal tipping/fly tipping especially of tyres and the potential for competition from an ELV and scrap yard being opened next door. Believes in the future there may be more fly tipping of cars if scrap drops below £20-30 per tonne. Handles 600 – 700 ELVs a year. 	Have enough space.		Birmingham 86% recycled.	

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<ul style="list-style-type: none"> There is a high crime rate, both vandalism and stealing. Do have CCTV but this does not help. The site is on a 50 year lease from Wyre Forest District Council. It is a small estate with lots of waste facilities. It is felt to be too small for anymore similar facilities, especially without significant improvements and maintenance of the roads within and around it. 				
10.03.09 12.30	Kidderminster Bulk Storage & Kidderminster HWS Severn Waste Services Road No. 3, Hoobrook Industrial Estate, Kidderminster, DY10 1HY & Worcester Road, Hoobrook Industrial Estate, Kidderminster, DY10 1LB <i>Site ID: 72</i>	<ul style="list-style-type: none"> Collect paper, plastic and co-mingled waste from three districts. Transport this to Peterborough, Evesham (Hill & Moor) and Milton Keynes. 	Currently have enough space.	Co-mingled recyclables. Worcestershire.	Evesham, Peterborough, Milton Keynes.	
17.03.09	Motor Services	<ul style="list-style-type: none"> The company have recovery contracts with the 	There is a need	ELVs	Parts sold	Birmingham

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
11.00	<p>Redditch Ltd</p> <p>Motor Services</p> <p>Terry Daxter</p> <p>26 Haswell Road Redditch Worcestershire B97 6AN</p> <p><i>Site ID: 39</i></p>	<p>police and insurance companies.</p> <ul style="list-style-type: none"> Some vehicles are collected but the majority are ELVs which are depolluted and broken for parts which are sold. Tyres which are in good condition are also sold. The remaining components are sorted with aluminium, steel and copper sold separately for recycling. The operation has expanded in recent years with the addition of a new depollution bay with and new automated rig (now 2 bays operational). The company have two further holding compounds with a two acres site at Weights lane, Redditch and a further site at The Slough, Studley. They need more land!!! They have some land in mind to the rear of the existing site and feel that it would be most suitable for their use as they are the only party with easy access. Business was increased significantly by the Evesham Floods and other similar events associated with climate change. The business is expected to continue to expand. 	<p>for more land for the operation.</p> <p>There is a potential site to the rear of the site.</p>	<p>Mainly Worcestershire and Midlands</p>	<p>nationally via internet.</p>	

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
17.03.09 13.00	<p>Arrow Metals Redditch</p> <p>Maurice O'Gorman</p> <p>Unit 58c Arthur Street Redditch B98 8JY</p> <p><i>Site ID: 40</i></p>	<ul style="list-style-type: none"> • This is small scale sorting facility in a small industrial unit. • It is an exempt facility. • Buys from trade and manufacturing and separates and segregates the waste. • It treats mostly dry items, with no oils, contaminated or toxic materials. It does collect batteries occasionally. • It has some skips on site which are sub contracted from Cradley Heath. 	The space on site is adequate at the moment and has been adequate in the past when things have been busier.	All of waste comes from the West Midlands and areas such as Evesham, Worcester, Solihull, Rubery, where smaller contractors don't want to take it as far as the Black Country.		
17.03.09 14.30	<p>Lower Park and Redditch Skip Hire</p> <p>Adam Wood</p> <p>Lower Park & Redditch Skip Hire Weights Lane Redditch B97 6RG</p> <p><i>Site ID: 10</i></p>	<ul style="list-style-type: none"> • The Lower Park site is a sorting facility. It takes deliveries on skips and sorts the material into bays in a large covered shed. • Deals with approximately 240 skips per week (180 own and 60 independent deliveries) deliveries are paid for on a price per skip basis. • Before November 2008 78% was recycled but following the fall in prices a much greater proportion is now being sent to landfill, with approximately 150 tonnes per week taken to Sandy Lane Landfill. • Hardcore is crushed on site and used as recycled aggregate. 	At the moment there is no need for extra space, however if market conditions improve the operator feels there would be plenty of space of expansion into nearby/ adjoining units at the Crossgate			

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<ul style="list-style-type: none"> Timber is processed into animal bedding. The site was running at full capacity in spring 2008 but is no longer anywhere near this. (It is licensed for 25,000 tonnes) There is an inert landfill on site, but this is not owned by Redditch Skip Hire. They run another site at Crossgate Road (also licensed for 25,000 tonnes). A further site at John Williams (Cinetic Sands) Ltd, Sandy Lane, Wildmoor, and Bromsgrove (licensed for 75,000 tonnes) was closed in autumn 2008 due to deteriorating market conditions. 	site.			
24.03.09 10.00	DJ Craddock and Sons Lisa Maylor Clevedon Farm Icknield Street Redditch B98 9AH <i>Site ID: 18</i>	<ul style="list-style-type: none"> They sort metal and deal mainly with steel, copper, aluminium and brass. They have a throughput of 16,000 – 17,000 tonnes per year. They get a lot of waste from Severn Waste. This often contains tyres - they take out and recycle the wheel rims and then put the rubber tyre into a Severn Waste bin which is collected and taken to Long Marston. Licensed to do ELVs but due to the low levels they rarely deal with them, however they do buy decontaminated vehicles from other car breakers. They are licensed to deal with 40 tonnes of batteries a week but don't currently do this as it is a lot of hassle and they don't get many. The current operational floor space is about 1 acre but the whole yard including storage, offices and 	<p>There is potential to expand operations of the current site.</p> <p>They would like to expand the metal side of things and would love to expand on the current site, extending the operational area into the current</p>	Buy metal from trade and public, dealing with skip companies from Malvern, Worcester Redditch, Evesham, Stratford and South Birmingham areas.	A lot of the sorted metal is sent to be shredded in Birmingham or is exported.	Hill and Moor

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>weighbridge is about 2½ acres.</p> <ul style="list-style-type: none"> It's good that there isn't a scrap yard around every corner like in Birmingham. They would also like to do wood waste, composting and green waste in the future. 	<p>storage area.</p> <p>There is also 65 acres around the yard which could be used.</p> <p>They might do more ELVs if they had more space.</p>			
24.03.09 11.00	<p>Reservoir Motors Ltd</p> <p>Mr and Mrs Monk</p> <p>High Park Wood Bransons Cross Alcester Road Beoley Redditch B98 9DT</p> <p><i>Site ID: 20</i></p>	<ul style="list-style-type: none"> Sort scrap metal, dealing with cars and airport tug trucks - individual weight around 40 tonnes. These come from Birmingham but also many other airports across England. They deal mainly with trade but make collections from the public. This is mainly in Worcestershire but also some from Birmingham. They deal with more airport equipment than cars (in terms of weight) so they have not really been affected by the credit crunch. Tried expanding a few years ago and had 3 yards. They found this unmanageable and have no plans to expand in the current site in the future. Access to the site off the highway is dangerous as the entrance is narrow and involves lorries turning across both lanes of the dual carriageway – would like to use land next door to make a slip road and 	<p>There are no plans to expand current operations. The existing site has access and highway safety issues which the operator may wish to improve by use of adjoining land.</p>	<p>Airport Tugs – National.</p> <p>Cars – Mainly Worcestershire, Some Birmingham.</p>		

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>in/out system on the site to reduce the risk of accidents.</p> <ul style="list-style-type: none"> There is currently no electricity on the site - this can cause difficulties. 				
24.03.09 13.00	<p>Tickeridge Farm, Warwick Stone Plant</p> <p>Roy Coombes</p> <p>Tickeridge Farm Hedgerows Plant Hire Ltd Timberhonger Lane Bromsgrove B61 9DN</p> <p><i>Site ID: 2</i></p>	<ul style="list-style-type: none"> The site is an inert landfill, which has the purpose of infilling and restoring a man-made dip on agricultural land. Anecdotally it is thought this was created either as a borrow pit when building the M5 or as a rifle range during WWI and II. There has been about 20,000 m³ fill in the last 2 ½ years. The operations are nearing completion, with about 1 year of fill left (based on the current climate). The inert material is sorted, with hardcore being retained for use on site - to build an access road for the farmer. A plan which includes a clear idea of restoration expectations is useful. Future sites should be near to development areas. 	They are looking for new sites and are currently looking at another much large site in the County.	Inert hardcore and soils form local building sites. E.g. Bromsgrove, Droitwich, Worcester, Redditch, Birmingham	Recycle a small proportion, mainly concrete.	On site.
31.03.09 10:00	<p>Polkacrest Waste Management</p> <p>David Howe</p> <p>The Redditch Plant Alexandra Hospital</p>	<ul style="list-style-type: none"> A clinical incinerator handling clinical waste and low level radioactive waste, treating waste at around 850-1000°C. The waste is mainly from hospitals, doctors and vets. The site is leased from the hospital on a 25 year lease (beginning 1996). Manage waste from the Alexandra Hospital, Kidderminster Hospital and Worcester Royal 	<p>Site has adequate capacity for the foreseeable future.</p> <p>No problems anticipated during the life of</p>	<p>Hospitals, Doctors, Vets.</p> <p>Collections are national, including Hereford, Coventry, West Bromwich,</p>	There is no material recovery but energy is produced in the form of steam, which is sold to the hospital boiler house.	Bottom ash and slag: landfilled at Ufton in Warwickshire . (about 14% of the volume of the initial

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	Redditch Worcestershire B98 7UB <i>Site ID: 41</i>	Infirmary (Acute Hospital Trust) and some smaller community hospitals which are now part of the PCT <ul style="list-style-type: none"> The site was owned by a larger company but the Competition Commission said that they had the monopoly in the North Worcestershire/South Midlands area. The site was sold to London Waste (owned by Sita and 7 North London Councils) 55% of the waste is collected and 45% is delivered. The contracts are relatively stable, with the NHS giving a minimum contract term of 3 years. Low Level Radioactive Waste is slowly reducing due to changed treatment methods. Changes in legislation mean that some wastes which were suitable for treatment by alternative technologies must now be incinerated. Incineration can cost 5-6 times that of landfill. The current site is constrained on three sides by the hospital and car parking and a school. There is some vacant land to the rear but this is believed to be owned by the hospital. 	the WCS. Whilst it is possible that some of the site constraints could be overcome this would not be easy. Expansion is not likely.	Sandwell, Northampton, Rochester and areas of Scotland.	This amounts to 20,000 tonnes of steam per annum and at certain times of the year can provide 100% of the steam needed by the boiler house.	input.) Fly Ash: (hazardous waste) landfilled in Skelmesdale.
31.03.09 13:00	<i>H T Waste & Recycling Ltd</i> <i>Barry Holloway</i> <i>H T Waste & Recycling Ltd</i> <i>Buckle Street</i> <i>Honeybourne</i>	<ul style="list-style-type: none"> <i>The site is a waste transfer station dealing mainly with construction waste and gardening waste.</i> <i>About 40% of the waste they collect comes from Worcestershire, the rest is from Gloucestershire and Warwickshire.</i> <i>They have about 700-800 skips, about 500 are out at a time at the moment, it was closer to 700 when the economy was better.</i> 	<i>NOT IN COUNTY, but the site immediately adjoins Worcestershire boundary and clearly serves it.</i>		<i>70% recovered, including composting.</i>	<i>30% Landfill.</i>

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	<i>Evesham Worcestershire WR11 7QE</i>	<ul style="list-style-type: none"> • <i>Some larger contractors separate waste but the majority is done on site. It is preliminary sorted manually, a trommel and pickline is then used to separate wood, paper, plastics and different sized aggregate and soil.</i> • <i>About 69% of the material buildings skips is recycled.</i> • <i>15 tonnes per week green wood is sent to Coventry for recovery.</i> • <i>40 tonnes per month Green Waste is composted at Dymock, this is mainly from the fruit packing activities locally.</i> • <i>Topsoil is mixed with soil improved and 600 tonnes is sold per month.</i> • <i>There have been an increase in Fridge/Freezer inquiries but the site isn't currently licensed for this.</i> • <i>Cardboard is recycled at Offenham.</i> • <i>A recent change has been the banning of plasterboard from landfill.</i> • <i>They employ 20 people and staff parking can be an issue.</i> 	<i>More space is need to improve the recovery percentages as the next stage of sorting would be much fussier. They are looking to expand on to adjoining land and have explored options of expansion over the road.</i>			
31.03.09 14:00	R & C Metals, Robert Huckfield R & C Metals Honeybourne Airfield trading Estate	<ul style="list-style-type: none"> • A scrap yard licensed for ELVs • Looking to get a waste recycling fragmentation machine. This would reduce the amount of waste by 30% this would need more space but there is plenty of room for expansion. • The site is rented and they have been here for 6 years. 	They are currently in the process of applying for permission for new equipment and an	Mainly local farm scrap and scrap metal from local waste operators in Honeybourne, Long Marston	Birmingham	Hill and Moor and Ufton, Warwickshire .

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	Weston Road Honeybourne WR11 7QF <i>Site ID: 87</i>	<ul style="list-style-type: none"> Employ 10 or 11 people and the moment, this might increase in the future. They deal with 180 tonnes per week, but at its best this has been over 250 tonnes. 	expansion of the current site size.	and the Littletons.		
07.04.09 10:00	RKR Malmoco Robert Kerkhoven RKR Malmoco Used Car Spares Ltd, Unit 17 Sherriff Street, Worcester, WR4 9AB <i>Site ID: 48</i>	<ul style="list-style-type: none"> An ELV facility dealing with about 800 cars per year. The site was originally part of the Shrubhill railway station. There is not much room for storage so they depollute cars, break them up and send them back out again quite quickly. The used spares market is shrinking because of cheaper new parts on ebay and car repairs becoming more reliant on computers. They expect the government to announce a voucher scheme for scrapping old cars, this will increase the depolluting aspect but harm the spares market. They own the land and expect the business to continue into the future. 25 years ago there were 7 car breakers in Worcestershire, now they are the only one left. Part of the Autogreen and Car take back schemes. 	There is enough land in the site to expand if wanted.	ELVs Local	<p>All material is sent to Birmingham, except tyres which are sent to Staffordshire and oil which goes to Merseyside.</p> <p>85% of the material is recycled.</p>	

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
07.04.09 10:30	Rainbow Recycling Worcestershire County Council Learning and Disability Services, Sheriff Street, Worcester, WR4 9AB <i>Site ID: 43</i>	<ul style="list-style-type: none"> The unit is part of Worcestershire County Councils Learning and Disability Services. Collect aluminium drinks cans, foil and plastic and natural corks from schools, colleges and local businesses. The revenue generated is split between providing resources for the group and planting trees in and around Worcester. 	Space is limited and the centre can get crowded as it is very popular.	They collect aluminium drinks cans, aluminium foil and natural and plastic wine corks.	The centre only sorts and crushes the material but the cork is ultimately converted into gaskets and expansion joints for use in industry.	
07.04.09 11:00	Individual Pet Cremation James Howell Individual Pet Cremation, Owl Hill Lane, Dunhampton, Stourport On Severn, Worcestershire, DY13 9SS <i>Site ID: 90</i>	<ul style="list-style-type: none"> They provide an individual pet cremation service for private clients. They do not deal with vets practices as they normally have contracts with larger operators who can also deal with medicines and other vet wastes (they can't). The burn time is less than 50kg per hour. The facility is not currently operating at its full capacity. This is the only facility of this type in the county. Deal with approximately 5-8 horses and month and 25-35 smaller pets, such as cats and dogs. 	No wish to expand.	Pets and horses. Usually collect within 20 miles but can arrange to go further. Most is from within the three counties.	Not applicable	The ash is sealed into plastic bags and returned to the owner in a scatter pouch or casket. This is about 4% of the original mass.
07.04.09 11.30	Stourport Household Waste Site	<ul style="list-style-type: none"> The sites is operated free of charge for residents to deposit waste and recyclables. They do not accept waste from businesses. 		Local residents and some commercial	Textiles, shoes, paper, cardboard,	Mixed waste to Hill and Moor Landfill

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	<p>Severn Waste Services</p> <p>Stourport Household Waste Site Minster Road Stourport on Severn Worcestershire DY13 8AA</p> <p>Site ID: 61</p>	<ul style="list-style-type: none"> The site is open Monday to Friday between 08:00 – 16:00 and Saturday to Sunday between 09:00 and 14:00. You can buy Green Grow Soil Conditioner from the HWS. This is made from the composted green waste. 		trailers	<p>batteries, electrical items, green waste, glass, plastic bottles, cans, scrap metal, soil, rubble, wood timber, asbestos, chemicals.</p> <p>6,300 tpa (70%)</p>	<p>site.</p> <p>2,700 tpa (30%)</p>
07.04.09 13:00	<p>7Tek</p> <p>Kelvin Hughes</p> <p>7Tek the UK Recycling Centre, Bewdley Road, Stourport-on-Severn, Worcestershire, DY13 8QT</p> <p>And</p> <p>Unit 7 Gemini Business Park, Stourport Road,</p>	<ul style="list-style-type: none"> The company operate two sites, one at Stourport and one at Kidderminster. The Stourport site was set up to hand dismantle and sort WEEE but they have not had the quantities they expected. This is because some sites shred and sort WEEE - cheaper but much less effective at reducing landfill. Will vacate the Stourport site in the next 9 months and are in the process of gaining consent for treating WEEE at the Kidderminster site. WEEE regulations are also complicated e.g. are customer returns business to business or business to consumer WEEE? WEEE is only 5-10% of the throughput (over both sites) The site is located next to a residential area so 	There is need for expansion on the Kidderminster site - They produce 180 tonnes of pellets per month and could do with increased capacity.	West Midlands	<p>Metals: West Midlands</p> <p>Plastic: UK and Far East.</p>	<p>Waste Transfer Station in Bromsgrove</p> <p>(25% of input)</p>

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	Kidderminster, DY13 8QT <i>Site ID: 66,67</i>	<p>hours of working are limited and neighbours often complain. However the site was a factory/had an industrial use long before the houses were built.</p> <ul style="list-style-type: none"> • The Kidderminster site deals mainly with hard plastics such as water and gas pipes and wheelie bins but also deals with other plastic such as food packaging and films and coat hangers. • The plastics are reduced shredded and reduced to a granule, which are then formed into pellets and sold to reproduce plastic products. This is sold to the highest bidder, this can be from UK or Europe but is often from China. • As oil prices dropped and the price of virgin plastics the price of recycled plastics also fell. This has been an issue since the middle of last year. • The site also deals with "secure destruction" of waste from Trading Standards and customs. • They also deal with some clothes. It is difficult to recycle clothes due to the mixture of materials used by they have used some trainers for spring tec/rubber carpets for equestrian uses. • The Kidderminster site is an exempt site with a throughput of 100 tonnes per week. • There seem to be a lot of recyclers in the midlands and north west but less in other areas of the UK. • The industry has turned full circle – they used to charge to collect waste, but this changed to paying for good waste materials. The price is now 				

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>dropping again.</p> <ul style="list-style-type: none"> In the future the recycling industry will probably become more like the car industry with a few key players and few smaller firms. 				
07.04.09 15:00	<p>ICL Environmental Services Ltd.</p> <p>Jim Ratford</p> <p>ICL Environmental Services Ltd. Firs Industrial Estate, Stourport Road, Kidderminster, DY11 7QN</p> <p><i>Site ID: 54</i></p>	<ul style="list-style-type: none"> Licensed for asbestos removal and also do deep cleans on schools and construction and demolition work. 70% of the work they do is in Worcestershire. Most of the asbestos is taken directly to landfill or larger transfer stations but some smaller amount are brought back to the site and stored in covered containers. They deal with 25 tonnes of asbestos on site a year. The business will eventually need to diversify as you have not been able to buy asbestos for 20 years. 	No need for expansion.	<p>Asbestos & Commercial i.e. timber, polythene & school equipment.</p> <p>Worcester, West Midlands, Gloucester, Salop, Warwickshire.</p>		Waste Transfer Station, Packwood.
21.04.09 11:00	<p>Mailes Waste Management</p> <p>Rob Costello</p> <p>Guinness Park Farm Leigh Sinton Nr. Malvern, Worcs, WR13 5EQ</p>	<ul style="list-style-type: none"> A waste transfer station dealing mainly with skip hire for construction and demolition waste. Also takes green waste from the public and some commercial waste. The site is currently operating on a temporary planning permission. There is a planning application for permanent permission, which has yet to be determined. If permission was granted they would replace the existing trommel with something more 	<p>They would like to increase the size of the licensed area.</p> <p>If the current application is refused they will be looking to locate somewhere else</p>	Skip Hire - commercial, industrial & domestic.	<p>PVC: taken to Cardiff where it is granulated and recycled.</p> <p>Plasterboard: Bristol.</p> <p>Soil: used as landfill cover.</p>	Veolia, Bromsgrove

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	<i>Site ID: 22</i>	<p>sophisticated and an undercover pick line and would sort inside the existing building, with only hardcore outside.</p> <ul style="list-style-type: none"> • The site is on a long term lease. • The material is hand sorted, then put through a trammel. • Are looking to sort/recycle more but cardboard needs to be sorted inside and the sorting of plastic bottles is not currently viable. • All operations currently take place outdoors but the current application would utilise a covered area. • There isn't really a place in the industry for skip storage on its own, there would really need to be a transfer station very close by. • It isn't viable or possible to sort and recycle all waste – there will always be a place for either landfill or incineration to deal with the rest. 	in the area.		<p>Wood: used at Hill and Moor on the haul road.</p> <p>Metal: Sims, Birmingham</p>	
21.04.09 12:00	<p>Pendragon Presentation Packaging</p> <p>Mr Humphreys</p> <p>Pendragon Presentation Packaging Ltd, The Haysfield, Malvern, Worcestershire, WR14 1GF</p>	<ul style="list-style-type: none"> • In house bailing of cardboard, paper and PVC. • They produce waste but do not handle waste from elsewhere. 	None		All recyclables are taken to Froome.	

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
'Phone Conv. on 23.04.09 at 09:35	Biffa Depot Biffa Waste Services Guinness Park Farm Leigh Sinton Malvern Worcestershire WR13 5EQ <i>Site ID: 32</i>	<ul style="list-style-type: none"> All trucks and skips are stored on this site and it is only used as a depot for storage. There is also a small office on site. Waste is taken to landfill, the landfills will vary depending on the type of waste This site is the only Biffa depot in Worcestershire. 	None			
28.04.09 11:00	Wyre Forest Recycling Wyre Forest Recycling Services Ltd, Sandy Lane Industrial Estate, Stourport-on-Severn, Worcestershire, DY13 9QB <i>Site ID: 56</i>	<ul style="list-style-type: none"> The total site area is 1 acre. The floor space of operational facilities is about ¾ acre. Main source of waste is from skips, which they then sort. Soil is screened and used to be crushed but this has now ceased due to neighbour complaints regarding noise. They sell the soil themselves. The poor quality soil goes to Hills Waste at Lickhill Quarry and Biffa also use for restoration soil. Plasterboard is separated. They no longer accept/recycle plastic. They do not recycle cardboard or paper as they do not have the volume to make this financially viable. The total throughput is 20,000 tonne (this is what they are licensed for) but they have an exemption on soil and brick so they could do more. The site has secure ownership. They process 1,500 tonne a month and about 70% of this is recycled. 	<p>Cannot expand current site as fully surrounded by development.</p> <p>Would like to expand business so could have soils and aggregate on another site - they could then crush it.</p>	<p>They accept waste from builders, commercial, industrial and householders.</p> <p>The main source is skips and occasionally site excavation.</p> <p>Most from Worcestershire but some from Shropshire.</p>	<p>Wood: Redditch Skip Hire</p> <p>Aggregate Pencroft or Blackpole Recycling</p> <p>Metal: Sims</p> <p>Green waste: Hill and Moor (70%)</p>	

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<ul style="list-style-type: none"> They currently own about 250 skips and 4 skip lorries but only currently use 3. 				
28.04.09 11:30	<p>I & R Plastic Recycling</p> <p>I & R Plastic Recycling, Unit 3 Heathfield Road Sandy Lane Industrial Estate Stourport on Severn Worcestershire DY13 9QA</p> <p>Site ID: 69</p>	<ul style="list-style-type: none"> They supply cages to auto motors/vehicles companies (much like supplying skips to companies) in the West Midlands however they have a contract with each company who then fill the cage up with off spec vehicle parts. They then process (pellet) this material, and export to Holland. It is then compounded and brought back to the UK where it is then sold to the motor vehicle industry (closed loop). Receive 20-30 tonnes per week They do not landfill anything; even the waste which falls onto the floor (small piece of plastic) is recycled and taken to Cardiff. They separate the cardboard and plastic and this is sent to Peterborough. 	They do not foresee any possible future development issues - they have enough space.	<p>Automotive industry</p> <p>West Midlands</p>	<p>Plastic: Holland, Cardiff</p> <p>Cardboard: Peterborough</p>	None
28.04.09 12:00	<p>OSS Group Ltd</p> <p>(Previously BSC Waste)</p> <p>OSS Group Ltd Barracks Road Sand Lane Industrial Estate Stourport on Severn Worcestershire DY13 9RW</p> <p>Site ID: 71</p>	<ul style="list-style-type: none"> They primarily collect and recycle used oil but now to compete with competitors also provide a service in collecting and recycling oily rags, antifreeze, batteries, bumpers, paint waste, mixed fuel, oil filters (general garage waste) and parts washers. Collect from all over the country and distribute all over the country (national). For example waste goes to Exeter, Norwich, Newbury, Stoke on Trent. Oil Filters – take paper out of filters and recycle this and the filter is then shredded. They produce NexGen CFO, CFO (Clean Fuel Oil) and RFO (Recycled Fuel Oil). NexGen CFO is an environmentally acceptable alternative to virgin fuel oils. It is a new recycled fuel oil, produced to the same BS 2869 	Would like more room for expansion. Would like the adjoining strip of land but this is on a floodplain. They would like to use this land for an access road, creating a one way system so that lorries would not have to carry out difficult	<p>Waste oil from mechanics and garages.</p> <p>National but 60% of the waste they collect is from below the 'Lutterworth line'.</p>	<p>Recycle 500,000 tonnes of oil.</p> <p>They produce NexGen CFO, CFO (Clean Fuel Oil) and RFO (Recycled Fuel Oil).</p> <p>Oily rags: recycled in West Bromwich.</p>	Hazardous waste is taken to Glasgow – closed cell landfill.

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>specification as virgin fuels and offering savings of around 10% over virgin gas oil and light fuel oils.</p> <ul style="list-style-type: none"> • CFO is a residual fuel oil produced to BS2869: 2006. It is indistinguishable as a product from virgin fuel oil and offers significant cost and environmental benefits. • RFO provides an extremely economical alternative to virgin fuel oil. Unlike CFO®, RFO is classified as a waste which means that it is subject to the Waste Incineration Directive (WID). This in turn means its use is restricted to customers who are WID compliant. • Had a high profile court case in December 2005 with the EA, they eventually won the case. This was regarding new legislation which would not allow them to burn oil, they believed that their new fuel that they had produced would be exempt from this new legislation, the EA did not respond or give an answer until just before the legislation came into force and suggested they would have to comply with this new legislation. After a long legal battle OSS won the court case • They have now produced another new fuel called Next Gen (as good as brand new fuel) • They are branching out into the boiler market 	<p>manoeuvres to turn around.</p> <p>They own the site and expect to be here in 2027.</p>			
28.04.09 13:00	<p>Hills Waste Solutions, Lickhill Quarry</p> <p>Hills Waste Solutions, Lickhill Quarry, Bewdley Road North,</p>	<ul style="list-style-type: none"> • Have a non hazardous landfill (Blackstone Quarry) and Waste Transfer Station which accepts industrial and commercial waste. • The construction and demolition waste is handed sorted, picking out the metals, hardcore/soils and wood. • The hardcore is used for sub-bases. 	Will close site and move out in 3-4 years	Waste comes from mostly Worcestershire (about 99%).	Hardcore and soils: 14,000 tpa screened and sold, they are classed as screened soil and not topsoil.	A small amount is landfilled, this is mixed waste.

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	Stourport-on-Severn, Worcestershire, DY13 8RN <i>Site ID: 55</i>	<ul style="list-style-type: none"> Clean wood is sold to various companies. The landfill is for inert material, Externals also tip into landfill (skip companies). Recovery volume 18,000 tonnes per year plus about 300 tonnes landfilled. Did have a skip hire business but this is now closed down. In 3 to 4 years they will close down this branch in Worcestershire as the landfill is coming to an end. It is very quiet at the moment, no mineral reserves left, landfill currently being restored. 			<p>Wood: 2,000 tpa shredded in Wiltshire and used for landfill cover.</p> <p>Metal: 2,000 tpa</p> <p>Recycle about 40%</p>	
12.05.09 10:00	Pure Recycling Pure Recycling, Offenham Road, Evesham, Worcestershire, WR11 8DX <i>Site ID: 80</i>	<ul style="list-style-type: none"> A licensed waste transfer station. They have a standard permit for 25,000 tpa household, commercial and industrial waste (gained early 2009 but operations but not yet kicked in). Also have 27,000 tpa capacity in exemptions. The site is 2 acres, with a 7,000ft² shed and two covered bays (15,000ft²). Also have sites at Ross on Wye, Swindon and Warwick. Paper and cardboard are sorted into different grades. Some is sent to UK paper and board mills in the UK the rest is exported through licensed brokers. This amounts to 100,000 tonnes across all four sites. Plastic is not sorted but is bulked for transshipment. They are looking to expand in the immediate future and will be applying for an additional 3 	<p>The licensed site area is sufficient but plan to increase operations between now and 2027 to receive commercial co-mingled waste.</p> <p>This would then be taken to the larger Warwick site for sorting.</p>	<p>Currently deal with paper, cardboard, plastics and cans but a new licence allows them to deal with any 'black bag' waste.</p> <p>Deal with local grows eg Fruit boxes etc. and have had a contract with Severn waste for 18yrs to deal with paper and card from</p>	<p>Paper and cardboard: Paper and board mills in UK.</p> <p>Plastic Bulked for transshipment</p>	Hill and Moor

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>storage/sorting bays.</p> <ul style="list-style-type: none"> They are also exploring possibilities for bulking of food waste collected by District Councils in Worcestershire (before it is sent to Dymock for IVC). 		municipal waste.		
12.05.09 11:30	<p>DE Talbot</p> <p>D E Talbot Summerway Landfill Hillary Road Stourport on Severn, Worcestershire DY13 9JP</p> <p><i>Site ID: 51 & 52</i></p>	<ul style="list-style-type: none"> They have had permission and licence for 400,000m³ inert landfill in a valley void since 1969 , but the landfill side of the operation has been inactive since 1994. Now they recycle stone, hard core and soil. The activities are considered ancillary to the landfill and would have to cease if infill was completed. There is no intention to complete the landfill. They feel that even if they did start again the landfill tax would price them out of the market and that recycling is better for the environment anyway. Have had various temporary permissions to crush and screen this material and have another 5 year permission to allow them time to find another site. This ends in 2013. The site is in the greenbelt. The materials are bulky and 'low value' and in order to make money the volumes must therefore be high. They feel there is a clear need for a site this size (with this much storage) in Worcestershire. Is would not be viable on an industrial site where land prices are higher. They get some topsoil and road planings from 	The future site has sufficient space and is viable. The business intends to stay here in the long-term future, however the temporary planning permission only runs to 2013.	<p>Road planing, bulk hardcore, concrete, tarmac, inert soils and sand.</p> <p>Worcestershire.</p>	<p>Type 1 stone: 100,000 tpa</p> <p>Topsoil: 30,000 tpa</p> <p>6F2 crushed concrete: 30,000 tpa</p>	

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<p>highways work - most of this work is done at night and this does not fit well with their permitted operating hours. More flexible working hours would be a huge help.</p> <ul style="list-style-type: none"> The site is well located to make use of high quality local soil – if they were in Worcester or somewhere like that they probably wouldn't do the soil side of the business. Get frustrated that they "are forgotten about" in current policy. They feel they are "a necessary evil" providing a good, local service to new development and road repairs. The plan to stay in the site in the future and not increase the size of their operations. They are looking at expanding the range of products offered, such as drainage gravels etc. 				
12.05.09 13:00	<p>Betts Envirometal (part of Stephen Betts and Sons)</p> <p>Simon Hundal 49-63 Spencer Street, Hockley, Birmingham, B18 6DE</p> <p><i>Site ID: 68</i></p>	<ul style="list-style-type: none"> The operation refines precious metal for the jewellery industry. Recovers precious metals from medical x-ray film, printer wastes, pottery, photograph processing and police ink from finger printing. They also reprocess jewellery. Have a hazardous waste license. They work with the NHS and also process industrial x-rays. They are granulated and washed and an electrical charge is applied to extract silver flick. This is burned to produce silver. 	There are no plans to expand the current site.	<p>NHS x-rays, industrial x-rays, printing ink, photo ink, jewellery</p> <p>National.</p>	<p>Recovered metal: UK jewellery or manufacturing industry (100%)</p> <p>The cardboard sleeves from the x-rays: shredded and 65% recycled.</p>	Any hazardous residues are sent to Augan

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
		<ul style="list-style-type: none"> For some types of x-ray silver can only be extracted by burning them. This is not permitted in the UK, so these are exported to USA. The supply of x-ray film is not unexhaustible as there has been a move towards digital x-rays <u>but</u> x-rays often have to be kept up to 15 years and they are currently dealing with medical x-rays from 1914 so they believe this side of the business can continue for many years and forms a key part of the business plan for the next 20 years at least. 			<p>Pallets: recycled off site</p> <p>Plastic from x-ray film (after processing): China.</p>	
26.05.09 10:00	<p>Court Recycling Services (CRS)</p> <p>Mr Gareth Jones CRS Ltd The Park Spring Lane South Malvern Link Worcs, WR14 1AT</p> <p><i>Site ID: 29 & 30</i></p>	<ul style="list-style-type: none"> Operating since August 2008, they currently deal with about 50 tonnes of metal per week and are looking to increase this to 100 tonnes per week. They take Copper, Aluminium, Lead, Brass, Stainless steel, Batteries, Computer parts, Platinum, plumbers scrap and cable, which they strip. They take about 10 cars per week. Don't currently depollute them, but would look into doing this if they get planning permission for the new site. They would also consider expanding into cardboard, wooden pallets and plastic depending on market conditions. They intended to move to a larger site and are currently awaiting a determination on a planning application for change of use on this site. 	<p>Currently need more space but have applied for planning permission to moving into larger yard along Spring Lane (Malvern).</p> <p>They may look to develop a site around the Worcester area in the future.</p>	<p>Copper, Aluminium, Lead, Brass, Stainless steel, Batteries, Computer parts, Platinum, plumbers scrap and cable,</p> <p>Worcester and surrounding area, including Malvern, Ledbury, Upton.</p>	<p>Metal: EMR or Sims in Birmingham.</p>	<p>Currently have no residue.</p>
02.06.09	<p>Potters Car and Vehicle Dismantlers</p>	<ul style="list-style-type: none"> The site area is about 1 acre The floor-space of operational facilities is about 1/3 of an acre. 	<p>Does not need more room. Is</p>	<p>ELV</p> <p>Generally within</p>	<p>Jones and Sons: Hoobrook,</p>	

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
12:00	Roger Hall Potters Car and Vehicle Dismantlers 3 Sandy Lane Titton Stourport on Severn DY13 9PZ <i>Site ID: 65</i>	<ul style="list-style-type: none"> Take scrapped cars (ELVs), but mainly do repairs. Useful parts are removed from the cars and they are generally not de-polluted, although have facilities in the garage/undercover floor space. Cars are then forwarded on. Very little residue is produced. The actual throughput is about 90 to 100 cars a year. The expected lifetime of the facility is 3 years as the site operator intends to retire then and believes no one will buy to operate scrap car yard. 	expecting to close within 3 years.	a 15 mile radius.	Kidderminster Sims, Birmingham.	
02.06.09 13:00	Stevalex Plastic Recycling Alex Yardley Stevalex Plastic Recycling Middle Barn Long More Chaddesley Corbett <i>Site ID: 70</i>	<ul style="list-style-type: none"> Total size of the site and the operational floor space is 0.025 hectares. They collect plastic, (usually off cuts) and process this into plastic pellets. The throughput is 1 tonne a day (about 20 tonne a month) but would like to double this in the near future. Do not currently need more land, but there are potential electrical supply issues - they are located in a barn on a farm and there are problems with increasing power supply to the machinery. This may limit how long they stay at that site. Envisage staying about 5 years. The next step for them would be to buy a shredder, but may need more electricity to do this. 	Do not currently need more land, but there are potential electrical supply issues which may limit how long they stay at that site.	Plastic off cuts Worcestershire. Main areas include, Malvern and Worcester. Outside of the County they receive a lot from West Bromwich and West Midlands area (Black Country).	China: 20 tonne every two months, Linpack, West Yorkshire. Birmingham Plastic Recycling, Birmingham. Dust film material that is produced goes to Wolverhampton: used to make	A small amount of non recyclable waste is produced, perhaps two small skips a year and this goes to landfill.

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
					plastic posts.	

In addition the following discussions were also held with industry.

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
26.6.07	Discussion at Darlaston Multi Purpose Centre N Dean and Graham Gardner (of Excelsior Pumps)	Excelsior Pumps (Rodecs system) Explanation of process and material needs for a waste to energy/fuel plant which turns 100,000t p.a. in to ethanol or bio diesel and can convert it to electricity and useable steam (0.7MW/tonne of waste) (1t dry MSW /75l fuel) Explanation of in several countries. Negative air pressure, water contained, emissions controlled. 2/3t per/hr. Factory 75m x 75x 15m = parking. <ul style="list-style-type: none"> Referred to Waste Disposal section to discuss possible links with JMWMS. 	WCS ISSUES; Est. ideal contract £40/t for 7 years. 15year life. Any industrial land acceptable c 3/4HA needed solely for parking/circulation. Operational			N/a not in Worcestershire and not considering expanding into county.
26.6.07	European Metal Services EMS Landor St, Nechells, Birmingham B8 1AE	<ul style="list-style-type: none"> Discussion & Site Visit. EST 1mt scrap metal p.a. nationally. The only Car Shredder (national, biggest in Europe) and Dense Media Treatment Plant in WM. Plant could be any size but the larger the better. Pollution control issues re. Groundwater, air and noise. Poor quality neighbour. B2. Rail connection welcomed.	WCS ISSUES; Turnover too large for Worcestershire, but fed by 65 depots of WTS/processors some of which			N/a not in Worcestershire and not considering expanding into county.

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
	N Dean and Ian Sheppard (of EMS)		are/could be in Worcestershire.			
25.7.07 N Dean and Chris Williams	Sims Recycling Solutions Long Marston, Worcs CV37 8AQ	<ul style="list-style-type: none"> Part of international (mostly metal) recycling group, providing specialist services (e.g. fridge materials recycling, special metal analysis) as part of a national group within a n international company. The largest metal recycler in the world. Some very large scale activity e.g. recycling a Boeing 737 and some very high value materials e.g. Titanium @ £30,000t. Developing plastic recycling. More than sub regional importance. Existing site currently fed by groups of WTS/processors some of which are/could be in Worcs 	<p>Would like to expand the current site.</p> <p>Pollution control issues re Groundwater, air and noise. Poor quality neighbour. B2.</p>	Metals, mixed. Very wide catchment, beyond Worcestershire, particularly in connection with SIMS/Bird group activity	All types of metal	Very little, mostly plastic, even rubble smuggled in to add weight to cars recycled as aggregates
18.1.10	Tel conversation N Dean and Mr A Bird	Discussion of future issues with site owner	Development of plastic and polymer recycling., construction waste , paper and board and refinement of existing processes.			
5.11.08 N Dean, L Botterill Angela Smith,	Lawrence Recycling & Waste Management The Forge, Stourport Road, Kidderminster, DY11 7QE	Meeting at their request, to discuss WCS and Vision in particular: issues of general support, clarification, access to and scale of, Trade Waste Streams, relevant to JMWMS and the diversion of MSW, wish to make presentation to Joint Member Forum.	May consider future waste management developments on site e.g. EfW, composting etc, once the initial proposed recycling facility is up & running.			

Date & Time of Visit	Site Details	Summary of Visit	Possible Future Development Issues	Waste Source: Type/Location	Recovery Material: Type/ Location	Residue: Type/ Location
			No need for additional land			

Appendix 1: Worcestershire Waste Core Strategy Background Documents

To help provide a robust evidence base for the Waste Core Strategy the Council has prepared a series of background documents. These outline current thinking and have informed the approach taken to date in the development of the waste core strategy. All of these background documents are *living document* and are in a state of development and comments are invited on all available documents during the consultation period.

Key Themes

- *Towards a Vision Statement*: sets out the vision which is driving the Waste Core Strategy and details how it has evolved through consultation process.
- *Spatial Portrait*: provides additional detail to the spatial portrait set out in this consultation. It includes a description of the County and the local factors that need to be taken into account in developing the Waste Core Strategy.
- *Spatial Strategy*: Set out how the Spatial Strategy for the WCS has been developed
- *Arisings and capacity gap*: considers waste arisings in Worcestershire and makes projections about future arisings, treatment capacity and the need for facilities.
- *Monitoring Baseline*: Establishes the baseline for indicators set out in the WCS monitoring schedule and makes recommendations for those indicators that are not currently monitored
- *Identifying 'areas of search'*: sets out the approach to identifying locations suitable for waste management development, termed 'areas of search' and details all of the alternatives methods considered. It lists all potential locations assessed and details why they were, or were not, considered suitable for waste management development. This document has been informed by *ERM Industrial Estate Report*.
- *Climate Change*: is intended to form a basis for addressing climate change issues in the Waste Core Strategy. It considers mitigation through the reduction of greenhouse gas emissions, energy demands and the adaptation of waste management facilities to climate change.
- *Links with Districts & Neighbouring Local Authorities Plans and Strategies*: identifies the aspects of the guidance 'Creating Strong, Safe and Prosperous Communities' which are relevant to the production of the Waste Core Strategy. As a result of the guidance, this paper goes on to examine the links to waste in Worcestershire's

Districts and neighbouring Local Authorities plans and strategies. It also evaluates what these links mean for the Waste Core Strategy.

- *Waste Sites in Worcestershire*: details existing waste management operations in Worcestershire and analysis of the relationship between size and throughput. In order to gain this information, the majority of known waste sites in the County were visited between September 2008 and July 2009. During these visits operators were asked about any issues currently faced, any future changes anticipated, these meetings are summarised in the report.
- *Inland Waterways*: The document was developed in response to consultation comments received on behalf of British Waterways regarding the Worcestershire County Council Waste Core Strategy: Refreshed Issues & Options Consultation. It sets out the policy context relating to Inland Waterways in Worcestershire.
- *Waste Freight by Rail*: considers the potential for movements of waste by rail in Worcestershire.

Waste Streams

- *Municipal Waste*: sets out the national and local policy context. It also includes details of the waste arisings and available capacity for treatment of municipal waste within the County.
- *Commercial and Industrial Waste*: sets out the national and local policy context. It also includes details of the waste arisings and available capacity for treatment of municipal waste within the County.
- *Construction and Demolition Waste*: sets out the national and local policy context. It also includes details of the waste arisings and available capacity for treatment of municipal waste within the County.
- *Agricultural Waste*: considers waste arising from agricultural activities in Worcestershire. It examines what agricultural waste is, how it is treated and explores the planning permitted development rights. and identifies the potential options for making provision through the Waste Core Strategy.
- *Hazardous Waste*: The document considers hazardous waste arising in Worcestershire. It includes information relating to hazardous waste in a national and regional policy context and includes details of the demand and available capacity for the treatment of hazardous waste within the County.
- *Waste Arisings from Healthcare and Related Activities - Clinical Waste and Low Level Radioactive Waste*: considers waste arising from health care and related activities, focusing on Clinical waste; and Non-nuclear low level radioactive waste. It includes information relating to clinical waste and non-nuclear low level radioactive waste in a policy context. It also includes details of the demand and available capacity for treatment of clinical and non-nuclear low level radioactive waste within the County.

Annex I considers low level radioactive waste from the nuclear industry in more detail, however it is not felt to be a significant issue in the County and is, therefore, not considered in the main body of the report.

Management Facilities

- *Types of Facilities:* is intended to be a simple guide that gives an overview of the processes that tend to happen at a range of different facilities and lists the things that might need to be thought about when deciding where a facility would be best situated. It also sets out some of the possible impacts and benefits of each type of facility.
- *Landfill* includes background data and considers issues around types of landfill and the policy context. It also details of the demand and available capacity for landfill within the County, based on EA data and the Council's own research.
- *Metal Recycling Sites:* considers all sites in Worcestershire involved in the recycling of metal, this includes sites which sort, bulk and/or process metal and any other sites that form part of the chain of processes of recycling waste metal into a material which can be re-used. It sets out the context and background data relating to metal recycling, detailing the demand and available capacity for metal recycling within the County.
- *Waste Transfer Stations:* considers Waste transfer stations, looking at the current need and capacity in Worcestershire and wider policy context.
- *Resource Recovery from Biodegradable Waste - Composting and Anaerobic Digestion* The document considers composting and anaerobic digestion. These treatment options are considered in the same document as they both offer the opportunity to recover resources from biodegradable waste. It sets out the context and background data relating to composting and anaerobic digestion.
- *Recovering Energy from Waste - Biological and Thermal Treatment Technologies:* sets out the context and background data relating to biological and thermal technologies for recovering energy from waste including anaerobic digestion, incineration and refuse derived fuels. There is some overlap with the Worcestershire Waste Core Strategy Background Document: Resource Recovery from Biodegradable Waste: Composting and Anaerobic Digestion.
- *Waste Water Treatment Infrastructure:* examines the need for waste water treatment infrastructure in Worcestershire. It includes information relating to waste water treatment policy context. It also proposes a possible way forward for the potential issues regarding who is responsible for what aspects of managing waste water treatment and related development.