Town and Country Planning Act 1990 – Section 78 Town and County Planning (Development Management Procedure) (England) Order 2015 Town and Country Planning (Inquiries Procedure) (England) Rules 2002

Statement on behalf of Andrew and Marilyn Mcdonald of The Bungalow, Lea Castle Equestrian Centre by Bill Houle FRICS

Land at Lea Castle Farm, Wolverley Road, Broadwaters, Kidderminster, Worcestershire

Application reference: 19/000053/CM

Appellant's name: NRS Aggregates Ltd

Appeal reference: APP/E1855/W/22/331009

The inspector has to decide the appeal on technical issues, barristers representations, the new minerals plan for Worcestershire and the application of the NPPF national planning policy framework set up to protect people from bad planning decisions. The fall of the application and appeal between the previous Worcestershire Minerals plan and the full application of the new plan and what H&S factors to consider. However, theres a human side to the consideration of the appeal. The intense level of opposition by 5000 local residents, schools, the local MP who arranged a "call in" if the original application was approved, the Wyre Forest District Council, the Parish council and neighbouring district councils as far away as Hagley. The human element is exemplified by the immediate neighbours at lea Castle Equestrian Centre surrounded on 3 sides by the quarry proposal. The property is owned by Mal and Andrew Mcdonald who have asked me to speak for them.

My name is Bill Houle – I'm a Fellow of the Royal Institution of Chartered Surveyors working in Birmingham and have lived in Wolverley for 16 years.

In this statement I address three main issues on behalf of the Mcdonalds relevant to the appeal:

1 David and Goliath contest
2 Impact on the Mcdonalds and local children
3 So many reasons why if granted the application would have a much greater human impact than appellants suggest and over a much longer time period

We ask the inspector to reject the appeal

1 David and Goliath contest

The owner of Lea Castle Farm, Mr Strong, resides in the Channel Isles, having a number of properties in England.

NRS Aggregates has changed its name since the application was submitted to NRS SAREDON AGGREGATES LIMITED Company number 08516859 (Saredon is a quarry near Cannock that's been running for 60 years and recently gained planning consent for 3 million tonnes of further sand extraction!) Looking at Companies House there are 2 Kidderminster related NRS companies possibly set up for this site NRS KIDDERMINSTER AGGREGATES LIMITED (11365289) and NRS KIDDERMINSTER HOLDINGS LIMITED (11358472). All in all there are at least 12 different companies with similar ownerships making it difficult to see how any conditions controlling this site might be enforced. However, it appears that each of these companies whilst having the same 3 directors is links back to NATURAL RESOURCE SERVICES HOLDING COMPANY LTD Company number 12084506 actually controlled by a 50.1% shareholding owned by LAF Holdings Ltd.

LAF HOLDINGS LIMITED Company number 06195309 appears owned by its 8 directors. In the year to March 2022 it turned over £528 Million and after paying its directors up to £1.2M salary, it made an operating profit of around £47.6 Million. This level of surplus finance shows the close to limitless resources available to NRS to prosecute an untenable planning application. A David and Goliath scenario as we, the good guys with limited resources fight on. It explains the deluge of contradicting consultancy reports submitted to the County and the appellants continuation of an untenable and rejected application. Any losses it makes will be written off against tax.

2 Impact on the Mcdonalds and local children

The Mcdonalds own and live at Lea Castle Equestrian Centre, located within the planning application boundaries. They made representation against the application at committee through me and are concerned that they are not mentioned in the appeal documents .

They have lived at the Bungalow at Lea Castle Equestrian Centre for 45 years. Their business has wound down in recent years due to uncertainty as to their long term future and their health issues. These are vulnerable people. Mal suffers from Crohns Disease, has regular medical treatments at home (detailed in evidence at planning committee). Her health has been severely affected by stress brought on by the planning battle. Andrew suffered a major traffic accident at the junction of Wolverhampton Road and Wolverley Road some years ago. Their once successful international equestrian business has wound down to a livery yard producing income and even that will go if consent for the quarry were granted. The disruption to their right of way will prevent crucial medical access for Mal, the installation of a conveyor carrying rock (solid sand) and sand will frighten riders and horses as will the relocation of bridlepaths along roadways

Mal and Andrew want to live out their lives in their long term home and they don't want their lives shortened by the impact of a quarry all around them (not a lot to ask!). They are also particularly concerned about the impact on local children . Perhaps spending some time in the area as the schools come out will help the inspector in his decision. When the new Lea Castle Village school opens there will be approx. 1270 children going to school within 500 metres of the appeal site. Over 11 years that equates to around 6000 children being affected in the roads they cross and the air they breathe and the constant noise of earthworks and plant and machinery operating during the school day.

3 Human impact

There are serious transport issues. The roads around Kidderminster are dangerous and congested as country roads meet urban roads and vehicles look to avoid the congestion in Kidderminster using “rat runs” of which the Wolverley Road forms part. 154 vehicle movements a day where HGV’s stop and turn across traffic will cause chaos.

There is major new development under way at Lea Castle Village comprising 1400 new homes, a school and 7 ha of business space . There are established housing and schools all around the appeal site. The WHO says sand quarries should not be located close to housing and schools due to the risks of sand particulates causing silicosis.

UK HSE says silicosis is deadly inside quarries and all employees must be protected but a metre outside the sites you are safe. This is dangerous nonsense that the Mcdonalds will have to experience first hand if consent were granted. We ask to inspector to flag up to Government the health and safety risks and to get them properly investigated. The health impacts of working sand quarries close to homes and schools could become the next Grenfell where research is ignored in favour of consultant reports paid for by the industry leading to long term health issues and death.

The new Minerals plan is now law. It is based on preferred sites but no sites have been selected and the test criteria for new sites has not been finalised. However, extensive tracts of land (corridors) have been identified offering thousands of acres better located than the subject site for non-contentious extraction.

Although selection criteria for new quarry sites aren’t finalised, the County has received an SA submitted by consultants in May 2021 setting 14 parameters for site selection. The appellant site fails on nearly all of them. In addition, the WCC planning committee has already rejected this site, so we believe the County should be stating unequivocally that this site can NEVER be a preferred site.

There is a Human rights issue. Local, Regional and National Government has a particular duty to protect young and vulnerable people. Childrens’ Human Rights must be addressed with so many schools located so close (a nursery just 17 metres away) The UN convention on Human Rights for Children tells us that the best interests of the child shall be a primary consideration. There are planning related UK legal judgements upholding this. (Stevens v. Secretary of State for Communities & Local Government, Hickinbottom J, 10 April 2013)

There is a resource and timing issue which implies that work will go on for many years longer than stated. The quarry plan for extraction of 3 million tonnes of sand together with progressive backfilling with 625,000 cu metres of “inert fill”. The works will be completed with 11 years according to the application.

Worcestershire in 2021 had a landfill capacity of 875,000 cu metres (see Waste Management 2021 data tables). Also in 2021 total infill of inert material in Worcestershire was 133,000 tonnes and the trend is downwards. Building waste landfill conversion is approx. 1.1 to 1`.2 tonnes per cu metre

In July 2022, NRS gained planning consent at Sandy Lane Quarry, Bromsgrove Worcestershire to extract 245,000 tonnes of sand and progressively infill over a period of 6 years with 975,000 tonnes of inert fill. The only conclusion one can reach is that there will not be inert fill material available in Worcestershire for NRS to achieve either timetable. This may not be so important for Sandy lane located in an established and ongoing quarry area except that apparently NRS only leases the site and

it could fall back to the owners Veolia. A consent in 2000 to extract and infill expired in 2017. The new consent to 2029 extends the life of the quarry to 29 years. NRS applied for the EA licence to work the quarry in November and the licence won't be granted for at least another 6 months adding a further year before work starts.

A quarry at Lea Castle Farm cannot be completed and restored in the proposed timescale.

There is no doubt, that should this appeal be granted, it will adversely affect the health and safety of not just the Mcdonalds but thousands of local children. The appellants proposals do not comply with previous or likely future policy on appropriate locations for a Sand and Gravel quarries in Worcestershire. The appellants are "working" the planning system in an attempt to achieve a totally inappropriate quarry extraction consent in a location totally unsuitable under any criteria. This is not one child being affected, it is thousands as well as many more in the wider community. These are disproportionate adverse effects with no measurable benefits, except to line the pockets of overseas owners and ridiculously wealthy speculators. Andrew Mcdonald was injured years ago at the traffic lights on the junction of the Wolverley and Wolverhampton Roads. Just last Thursday, 7 people were injured at the same place in an accident bad enough to reach BBC National radio (Radio 2 traffic reports). Two small cars collided as one turned right across the other. If an HGV had been involved, they will have died.

The McDonalds are David fighting Goliath, their lives and that of up to 6000 children will be badly affected and there are flaws in the proposal which demonstrate the human impact will be worse than described for a longer time.

Please use your skills and knowledge to refuse this appeal and ensure the appellants have no further opportunity on this land.

Please refuse this appeal.

Stevens v. Secretary of State for Communities & Local Government, Hickinbottom J, 10 April 2013

Planning policy versus the UN rights of the child

There is a human rights issue here. Childrens Human Rights come to the fore with so many schools located so close (a nursery just 17 metres away). There's huge concern publicly at present over children dying due to public sector fault on air quality including air pollution in London and recent death through mould in council residential property. No inspector would want to approve planning at appeal that went against Childrens Human Rights

A look online at "Human Rights and Planning" leads to:

Planning policy versus the UN rights of the child
11 April 2013 by David Hart KC
Stevens v. Secretary of State for Communities & Local Government, Hickinbottom J, 10 April 2013

As the judge explicitly recognised, this case raised the clash of two principles – how to resolve the policy-driven field of planning with the rights of family under Article 8 ECHR and of the child under Article 3 of the UN Convention on the Rights of the Child (UNCRC).

Article 3(1) of the UNCRC:

In all actions concerning children, whether undertaken by public or private social welfare institutions, courts of law, administrative authorities or legislative bodies, the best interests of the child shall be a primary consideration.

Furthermore,…….the House of Lords have held that, where the proportionality of the impact of a decision on human rights is at issue, that is a substantive question to be objectively determined by the court, and not a procedural one that requires the court to investigate the decision-making process (R (SB) v Governors of Denbigh High School [2006] UKHL 15: ("SB") and Miss Behavin' Ltd v Belfast City Council [2007] UKHL 19; ("Miss Behavin'"))

So in summary

UN Convention on Human Rights for Children tells us that the best interests of the child shall be a primary consideration.

See

https://ukhumanrightsblog.com/2013/04/11/planning-policy-versus-the-un-rights-of-the-child/

Waste Management Information 2021	Former West Midlands Planning Region

Category	Click on link to go to tab
Landfill	Landfill inputs 2021
Landfill	Landfill input trends from 2000 to 2021
Landfill	Landfill capacity 2021
Landfill	Landfill capacity trends from 2000 to 2021
Transfer, Treatment and MRS	Transfer, treatment and MRS inputs 2021
Transfer, Treatment and MRS	Transfer, treatment and MRS input trends from 2000 to 2021
Incineration	Incineration inputs and capacity 2021
Land disposal	Land disposal inputs 2021
Use of waste	Use of waste inputs 2021
Hazardous waste	Hazardous waste management and deposits 2021
Hazardous waste	Hazardous waste deposits by fate 2021
Hazardous waste	Hazardous waste: trends data from 2000 to 2021

West Midlands: Landfill inputs 2021

All figures are provided in 000s tonnes

Landfill Type	Sub-Region						WEST MIDLANDS
	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Met Districts	Worcestershire	
Hazardous Merchant	-	-	-	-	-	-	**-**
Hazardous Restricted	-	-	-	-	-	-	**-**
Non Hazardous with SNRHW cell	-	164	370	502	156	33	**1,225**
Non Hazardous	-	14	814	139	588	152	**1,707**
Non Hazardous Restricted	-	-	-	-	-	-	**-**
Inert	-	20	851	398	784	133	**2,186**
Total	**-**	**198**	**2,035**	**1,039**	**1,528**	**318**	**5,118**

Table Notes:

Data since 2005 has been reclassified into categories used under the PPC permitting of landfills and because of the ban on the co-disposal of waste in landfills in July 2004.

From 16 July 2004, hazardous landfills have only been able to accept wastes classified as hazardous under the Hazardous Waste Directive.

Some non-hazardous sites can accept some Stable Non Reactive Hazardous Wastes (SNRHW) into a dedicated cell, but this is usually a small part of the overall capacity of the site.

The above data do not include waste received by closed landfills for restoration purposes.

West Midlands: Waste deposit trends: Landfill deposits by site type, waste type and sub-region from 2000/1 to 2021

All figures are provided in 000s tonnes

Year	Site Type	Sub Region							WEST MIDLANDS
		Waste type	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Metropolitan Districts	Worcestershire	
2000/1	Co disposal	Inert/C&D	-	56	340	199	51	126	772
		HIC	-	523	1,043	1,371	736	501	4,174
		Hazardous	-	41	40	37	29	3	150
	Co disposal Total		-	620	1,423	1,607	816	630	5,096
	Non-inert	Inert/C&D	-	209	93	33	81	47	463
		HIC	-	45	126	77	10	49	307
		Hazardous	-	-	-	-	-	-	-
	Non-inert Total		-	254	219	110	91	96	770
	Inert only	Inert/C&D	7	13	185	577	21	312	1,115
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		7	13	185	577	21	312	1,115
	Restricted-user	Inert/C&D	-	34	266	314	23	-	637
		HIC	-	90	209	42	143	-	484
		Hazardous	-	-	-	-	11	-	11
	Restricted-user Total		-	124	475	356	177	-	1,132
2000/1 Total			**7**	**1,011**	**2,302**	**2,650**	**1,105**	**1,038**	**8,113**
2002/3	Co disposal	Inert/C&D	-	147	292	164	125	84	810
		HIC	-	474	944	1,059	670	474	3,621
		Hazardous	-	13	12	52	23	3	102
	Co disposal Total		-	634	1,247	1,274	818	560	4,533
	Non-inert	Inert/C&D	0	-	235	12	34	15	296
		HIC	6	-	100	-	88	45	238
		Hazardous	-	-	0	-	-	-	0
	Non-inert Total		6	-	335	12	122	60	535
	Inert only	Inert/C&D	6	329	233	276	220	93	1,157
		HIC	-	1	75	-	20	-	95
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		6	330	307	276	240	93	1,252
	Restricted-user	Inert/C&D	-	6	4	-	-	-	10
		HIC	-	271	-	15	6	-	293
		Hazardous	-	-	-	1	-	-	1
	Restricted-user Total		-	277	4	16	6	-	304
2002/3 Total			**11**	**1,241**	**1,894**	**1,579**	**1,186**	**713**	**6,624**

2004/5	Hazardous	Inert/C&D	-	-	-	-	198	-	198
		HIC	-	-	-	-	354	-	354
		Hazardous	-	-	-	-	28	-	28
	Hazardous Total		-	-	-	-	580	-	580
	Non-inert	Inert/C&D	3	297	720	292	218	246	1,776
		HIC	-	387	1,230	732	499	375	3,223
		Hazardous	-	42	73	43	43	3	204
	Non-inert Total		3	726	2,023	1,067	760	624	5,203
	Inert only	Inert/C&D	3	253	391	115	409	300	1,472
		HIC	-	-	43	-	13	-	56
		Hazardous	-	0	-	-	-	-	0
	Inert only Total		3	253	434	115	423	300	1,528
	Restricted-user	Inert/C&D	-	1	3	-	-	-	5
		HIC	-	236	-	22	8	-	266
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	237	3	22	8	-	271
2004/5 Total			**6**	**1,216**	**2,460**	**1,204**	**1,770**	**924**	**7,581**
2005	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	1	227	289	408	306	64	1,293
		HIC	-	519	767	1,109	818	454	3,667
		Hazardous	-	12	-	46	6	1	64
	Non-inert Total		1	758	1,055	-	1,129	518	5,024
	Inert only	Inert/C&D	2	266	285	64	301	160	1,078
		HIC	-	-	181	-	-	13	194
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		2	266	466	-	301	173	1,272
	Restricted-user	Inert/C&D	-	-	100	36	11	-	148
		HIC	-	259	31	9	18	-	317
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	259	131	-	28	-	464
2005 Total			**3**	**1,283**	**1,653**	**1,672**	**1,458**	**692**	**6,761**
2006	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	2	228	121	400	195	25	972
		HIC	-	520	785	1,131	594	122	3,152
		Hazardous	-	21	-	16	6	-	43
	Non-inert Total		2	768	906	-	795	148	4,166
		Inert/C&D	-	221	270	99	310	44	945

	Inert only	HIC	-	-	209	-	-	23	232
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	221	480	-	310	67	1,177
	Restricted-user	Inert/C&D	-	-	0	128	-	-	128
		HIC	-	245	-	-	59	-	304
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	245	0	-	59	-	432
2006 Total			**2**	**1,235**	**1,385**	**1,775**	**1,163**	**214**	**5,775**
2007	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	0	-	-	-	0
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		**-**	**-**	0	**-**	**-**	**-**	0
	Non-inert	Inert/C&D	-	276	91	378	190	115	1,050
		HIC	0	361	749	1,048	575	464	3,198
		Hazardous	0	4	-	16	17	-	37
	Non-inert Total		0	641	841	1,442	782	580	4,286
	Inert only	Inert/C&D	-	49	256	376	209	43	934
		HIC	-	-	-	-	36	10	46
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	49	256	376	245	54	980
	Restricted-user	Inert/C&D	-	-	-	125	21	-	146
		HIC	-	133	-	-	111	-	244
		Hazardous	-	-	-	-	10	-	10
	Restricted-user Total		-	133	-	125	142	-	400
2007 Total			**0**	**823**	**1,096**	**1,943**	**1,169**	**633**	**5,666**
2008	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	0	-	-	-	0
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		**-**	**-**	0	**-**	**-**	**-**	**0**
	Non-inert	Inert/C&D	-	122	76	427	166	43	835
		HIC	0	310	825	946	542	361	2,984
		Hazardous	0	5	-	42	10	-	57
	Non-inert Total		0	438	901	1,415	719	404	3,876
	Inert only	Inert/C&D	-	141	157	98	115	33	544
		HIC	-	-	-	-	109	2	111
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	141	157	98	224	35	655
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	155	46	-	-	-	201
		Hazardous	-	-	-	-	20	-	20
	Restricted-user Total		-	155	46	-	20	-	220
2008 Total			**0**	**733**	**1,104**	**1,513**	**963**	**439**	**4,751**
		Inert/C&D	-	-	-	-	-	-	-

2009	Hazardous	HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	99	84	390	129	28	730
		HIC	-	127	762	888	434	270	2,482
		Hazardous	-	1	3	25	4	-	33
	Non-inert Total		-	227	849	1,304	568	298	3,245
	Inert only	Inert/C&D	-	118	172	181	204	72	747
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	118	172	181	204	72	747
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	116	111	4	-	-	231
		Hazardous	-	-	-	13	-	-	13
	Restricted-user Total		-	116	111	18	-	-	245
2009 Total			**-**	**461**	**1,131**	**1,503**	**771**	**371**	**4,237**
2010	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	27	72	322	102	25	549
		HIC	-	304	595	943	356	348	2,546
		Hazardous	-	2	-	16	7	0	25
	Non-inert Total		-	332	668	1,281	465	374	3,120
	Inert only	Inert/C&D	-	189	312	208	130	69	908
		HIC	-	-	-	-	-	0	0
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	189	312	208	130	70	909
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	43	32	3	-	-	77
		Hazardous	-	-	-	8	-	-	8
	Restricted-user Total		-	43	32	11	-	-	85
2010 Total			**-**	**564**	**1,012**	**1,500**	**595**	**443**	**4,114**
2011	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	74	104	316	113	18	626
		HIC	-	340	427	868	316	355	2,306
		Hazardous	-	5	-	21	136	-	162
	Non-inert Total		-	419	531	1,205	565	373	3,094
	Inert only	Inert/C&D	-	289	384	164	146	90	1,073
		HIC	-	-	-	-	-	0	0

		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	289	384	164	146	91	1,073
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	42	40	-	-	-	82
		Hazardous	-	-	-	220	-	-	220
	Restricted-user Total		-	42	40	220	-	-	303
2011 Total			**-**	**749**	**956**	**1,589**	**711**	**464**	**4,469**
2012	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	96	127	234	106	16	579
		HIC	-	395	544	613	282	317	2,151
		Hazardous	-	6	0	14	7	-	27
	Non-inert Total		-	497	671	861	396	332	2,757
	Inert only	Inert/C&D	-	254	503	106	37	66	966
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	254	503	106	37	66	966
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	10	60	-	-	-	69
		Hazardous	-	-	-	45	-	-	45
	Restricted-user Total		-	10	60	45	-	-	115
2012 Total			**-**	**760**	**1,234**	**1,012**	**433**	**399**	**3,838**
2013	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	109	94	432	55	30	719
		HIC	-	267	474	594	290	216	1,840
		Hazardous	-	6	9	17	2	-	34
	Non-inert Total		-	382	576	1,042	347	246	2,593
	Inert only	Inert/C&D	-	216	392	245	131	7	992
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	216	392	245	131	7	992
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	0	54	-	-	-	54
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	0	54	-	-	-	54
2013 Total			**-**	**598**	**1,022**	**1,287**	**478**	**253**	**3,639**
	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-

		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	105	93	257	124	75	654
		HIC	-	165	334	415	435	335	1,683
		Hazardous	-	0	-	17	2	-	19
2014	**Non-inert Total**		-	270	427	689	561	410	2,357
	Inert only	Inert/C&D	-	104	778	742	207	16	1,847
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	104	778	742	207	16	1,847
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	43	-	-	-	43
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	-	43	-	-	-	43
2014 Total			**-**	**373**	**1,247**	**1,431**	**768**	**426**	**4,246**
	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	211	192	767	104	71	1,345
		HIC	-	181	433	267	427	249	1,557
		Hazardous	-	0	-	14	3	-	17
2015	**Non-inert Total**		-	392	625	1,048	534	320	2,920
	Inert only	Inert/C&D	-	40	603	995	233	34	1,904
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	40	603	995	233	34	1,904
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	24	-	-	-	24
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	-	24	-	-	-	24
2015 Total			**-**	**432**	**1,251**	**2,043**	**767**	**354**	**4,847**
	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	82	92	479	285	65	1,003
		HIC	-	125	490	228	791	203	1,838
		Hazardous	-	-	-	11	18	-	29
2016	**Non-inert Total**		-	207	582	718	1,093	268	2,869
	Inert only	Inert/C&D	-	39	609	922	693	253	2,514
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-

	Inert only Total		-	39	609	922	693	253	2,514
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	2	-	-	-	2
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	-	2	-	-	-	2
2016 Total			**-**	**246**	**1,193**	**1,640**	**1,786**	**521**	**5,386**
2017	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	72	108	438	460	48	1,127
		HIC	-	23	846	286	619	124	1,897
		Hazardous	-	-	33	19	13	-	66
	Non-inert Total		-	94	986	744	1,092	172	3,089
	Inert only	Inert/C&D	-	29	859	953	913	199	2,954
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	29	859	953	913	199	2,954
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	-	-	-	-	-	-
2017 Total			**-**	**124**	**1,846**	**1,697**	**2,005**	**371**	**6,043**
2018	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	115	209	238	245	99	906
		HIC	-	7	892	327	223	130	1,580
		Hazardous	-	-	39	20	6		65
	Non-inert Total		-	122	1,141	585	475	229	2,551
	Inert only	Inert/C&D	-	25	808	857	224	197	2,112
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	25	808	857	224	197	2,112
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	-	-	-	-	-	-
2018 Total			**-**	**148**	**1,949**	**1,442**	**699**	**426**	**4,663**
	Hazardous	Inert/C&D	-	3	-	-	-	-	3
		HIC	-	72	-	-	-	-	72
		Hazardous	-	-	-	-	-	-	-

2019	**Hazardous Total**		-	75	-	-	-	-	75
	Non-inert	Inert/C&D	-	6	589	120	358	69	1,142
		HIC	-	7	1,023	403	280	131	1,844
		Hazardous	-		18	15	4	15	52
	Non-inert Total		-	13	1,630	538	642	215	3,038
	Inert only	Inert/C&D	-	27	633	828	714	167	2,369
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	27	633	828	714	167	2,369
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	-	-	-	-	-	-
2019 Total			**-**	**115**	**2,263**	**1,366**	**1,356**	**382**	**5,482**
2020	Hazardous	Inert/C&D	-		-	-	-	-	-
		HIC	-		-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	16	387	115	347	44	909
		HIC	-	109	947	451	204	133	1,844
		Hazardous	-		12	7	3	13	35
	Non-inert Total		-	125	1,346	573	554	190	2,788
	Inert only	Inert/C&D	-	24	700	667	848	137	2,376
		HIC	-		-	2	-		2
		Hazardous	-	-	-	-	-	-	-
	Inert only Total		-	24	700	669	848	137	2,378
	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	-	-	-	-	-	-
2020 Total			**-**	**149**	**2,046**	**1,242**	**1,402**	**327**	**5,166**
2021	Hazardous	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Hazardous Total		-	-	-	-	-	-	-
	Non-inert	Inert/C&D	-	23	223	175	512	27	960
		HIC	-	155	947	455	227	143	1,927
		Hazardous	-	-	14	12	4	15	45
	Non-inert Total		-	178	1,184	642	743	185	2,932
	Inert only	Inert/C&D	-	20	851	394	784	133	2,182
		HIC	-	-	-	3	-	-	3
		Hazardous	-	-	-	1	-	-	1
	Inert only Total		-	20	851	398	784	133	2,186

	Restricted-user	Inert/C&D	-	-	-	-	-	-	-
		HIC	-	-	-	-	-	-	-
		Hazardous	-	-	-	-	-	-	-
	Restricted-user Total		-	-	-	-	-	-	-
2021 Total			**-**	**198**	**2,035**	**1,040**	**1,527**	**318**	**5,118**

West Midlands: Landfill capacity 2021

All figures are provided in 000s cubic metres

Landfill Type	Sub-Region						WEST MIDLANDS
	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Met Districts	Worcestershire	
Hazardous Merchant	-	-	-	-	-	-	**-**
Hazardous Restricted	-	-	-	340	195	-	**535**
Non Hazardous with SNRHW cell*	-	242	1,513	3,202	259	170	**5,386**
Non Hazardous	-	847	7,816	5,428	7,628	4,172	**25,891**
Non Hazardous Restricted	-	-	-	-	-	-	**-**
Inert	-	306	3,317	2,596	783	875	**7,877**
Total	**-**	**1,395**	**12,646**	**11,566**	**8,865**	**5,217**	**39,689**

*Some non-hazardous sites can accept some Stable Non Reactive Hazardous Wastes (SNRHW) into a dedicated cell, but this is usually a small part of the overall capacity of the site.

Table Notes:

Data for 2021 is classified into Landfill Directive categories.

2021 landfill capacity data was obtained from environmental monitoring reports required by permits or directly from the operator.

West Midlands: Landfill capacity trends from 1998/99 to 2021

All figures are provided in 000s cubic metres

Year	Site Type	Sub Region						WEST MIDLANDS
		Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Metropolitan Districts	Worcestershire	
1998/99	Inert	40	1,026	4,063	2,161	160	728	8,178
	Non-Inert	100	6,755	19,719	20,260	11,770	10,955	69,559
	Restricted User	-	796	4,797	3,536	1,459	-	10,588
		140	**8,577**	**28,579**	**25,957**	**13,389**	**11,683**	**88,325**
2000/01	Inert	24	285	9,602	705	-	589	11,205
	Non-Inert	100	7,062	17,126	21,807	19,760	10,660	76,515
	Restricted User	-	353	4,395	3,670	1,075	-	9,493
		124	**7,700**	**31,123**	**26,182**	**20,835**	**11,249**	**97,213**
2004	Inert	-	2,965	6,630	1,373	2,972	1,279	15,219
	Non-Inert	-	7,088	20,142	19,836	6,079	8,462	61,607
	Restricted User	-	776	24	10	185	-	996
		-	**10,830**	**26,796**	**21,219**	**9,236**	**9,740**	**77,822**
2005	Inert	-	2,820	6,162	1,115	2,977	1,991	15,064
	Non-Inert	-	6,605	17,664	19,139	15,839	6,977	66,224
	Restricted User	-	576	160	316	711	-	1,762
		-	**10,001**	**23,985**	**20,570**	**19,527**	**8,968**	**83,049**
2006	Inert	-	2,820	5,125	1,124	2,977	1,711	13,756
	Non-Inert	-	6,143	17,010	21,294	17,438	7,578	69,463
	Restricted User	-	524	-	214	646	-	1,384
		-	**9,487**	**22,135**	**22,632**	**21,060**	**9,290**	**84,603**
2007	Inert	-	599	6,374	1,251	2,644	805	11,673
	Non-Inert	-	6,146	15,787	24,210	16,286	8,207	70,635
	Restricted User	-	274	172	240	650	-	1,336
		-	**7,019**	**22,332**	**25,700**	**19,580**	**9,013**	**83,644**
2008	Inert	-	1,189	4,609	1,280	2,629	1,535	11,241
	Non-Inert	-	4,868	14,513	23,277	16,664	7,821	67,144
	Restricted User	-	102	127	240	453	-	922
		-	**6,160**	**19,248**	**24,797**	**19,746**	**9,356**	**79,307**
2009	Inert	-	855	4,710	1,142	3,637	2,949	13,292
	Non-Inert	-	4,767	13,770	13,383	16,307	6,829	55,057
	Restricted User	-	120	-	531	-	-	651
		-	**5,742**	**18,480**	**15,056**	**19,944**	**9,778**	**68,999**
2010	Inert	-	843	3,421	908	3,444	2,933	11,550
	Non-Inert	-	4,591	12,935	12,643	16,630	6,694	53,493
	Restricted User	-	128	-	531	-	-	659
		-	**5,562**	**16,356**	**14,082**	**20,074**	**9,627**	**65,701**
2011	Inert	-	1,048	2,611	873	2,765	3,135	10,431
	Non-Inert	-	3,874	12,442	11,381	16,516	6,346	50,559
	Restricted User	-	77	-	531	-	-	607
		-	**4,999**	**15,053**	**12,784**	**19,280**	**9,481**	**61,597**
2012	Inert	-	1,045	2,295	1,068	2,642	2,962	10,012
	Non-Inert	-	3,792	11,297	11,113	16,198	6,579	48,980
	Restricted User	-	105	-	531	195	-	831
		-	**4,943**	**13,592**	**12,711**	**19,035**	**9,541**	**59,823**
2013	Inert	-	1,042	2,893	6,462	2,588	2,964	15,949
	Non-Inert	-	3,572	11,375	10,721	16,915	5,822	48,405
	Restricted User	-	105	-	531	195	-	831
		-	**4,719**	**14,268**	**17,714**	**19,698**	**8,786**	**65,185**
2014	Inert	-	1,035	5,015	6,066	2,505	2,958	17,579
	Non-Inert	-	3,352	11,102	10,246	15,281	5,588	45,569
	Restricted User	-	105	-	340	195	-	640
		-	**4,493**	**16,117**	**16,652**	**17,981**	**8,545**	**63,788**
2015	Inert	-	1,032	3,957	5,483	1,842	2,894	15,207
	Non-Inert	-	2,915	10,731	10,722	15,071	5,409	44,847
	Restricted User	-	106	-	340	195	-	641
		-	**4,053**	**14,688**	**16,544**	**17,108**	**8,302**	**60,695**
2016	Inert	-	1,000	3,807	4,844	2,014	2,894	14,559
	Non-Inert	-	2,849	10,735	9,850	14,453	4,954	42,841
	Restricted User	-	106	-	340	195	-	641
		-	**3,955**	**14,542**	**15,035**	**16,662**	**7,848**	**58,041**
2017	Inert	-	1,000	4,731	4,299	1,822	2,525	14,377
	Non-Inert	-	2,834	10,283	10,291	13,959	5,003	42,370
	Restricted User	-	-	108	340	195	-	643
		-	**3,834**	**15,123**	**14,929**	**15,976**	**7,528**	**57,390**
2018	Inert	-	1,010	4,605	3,836	1,393	1,591	12,435
	Non-Inert	-	2,820	10,630	10,005	13,726	4,912	42,094
	Restricted User	-	-	108	340	195	-	643
		-	**3,830**	**15,343**	**14,181**	**15,315**	**6,503**	**55,172**
2019	Inert	-	758	3,537	3,372	1,352	1,466	10,485
	Non-Inert	-	2,730	9,915	9,018	13,374	4,590	39,627
	Restricted User	-	-	108	340	195	-	643
		-	**3,488**	**13,560**	**12,730**	**14,921**	**6,056**	**50,755**
2020	Inert	-	307	4,298	3,429	504	1,966	10,504
	Non-Inert	-	1,328	9,438	8,894	12,851	3,966	36,477
	Restricted User	-	-	444	340	195	-	979
		-	**1,635**	**14,180**	**12,663**	**13,550**	**5,932**	**47,960**
2021	Inert	-	306	3,317	2,596	783	875	7,877
	Non-Inert	-	1,089	9,328	8,630	7,887	4,342	31,276

	Restricted User	-	-	-	340	195	-	535
		-	**1,395**	**12,645**	**11,566**	**8,865**	**5,217**	**39,689**

Non -Inert: Non hazardous landfill sites, non-hazardous landfill sites with a Stable Non Reactive Hazardous Waste Cell(SNHRW), merchant hazardous landfill sites
Restricted User: Non-hazardous and hazardous restricted landfill sites

West Midlands: Transfer, treatment and metal recycling site inputs 2021

All figures are provided in 000s tonnes

Site Type	Sub-Region						WEST MIDLANDS
	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Met Districts	Worcestershire	
Hazardous waste	40	90	393	93	243	45	**904**
HIC	66	188	464	163	1,351	308	**2,540**
Clinical	-	-	3	-	5	-	**8**
Civic amenity site	23	112	145	37	97	72	**486**
Non Biodegradable	-	11	106	-	1	-	**118**
Transfer Total	**129**	**401**	**1,111**	**293**	**1,697**	**425**	**4,056**
Material recovery	3	147	180	91	302	82	**805**
Physical	97	178	945	1,071	1,482	222	**3,995**
Physico-chemical	-	98	72	37	234	-	**441**
Chemical	-	-	-	-	-	-	**-**
Composting	-	108	193	189	37	22	**549**
Biological	99	425	356	277	551	51	**1,759**
Treatment Total	**199**	**956**	**1,746**	**1,665**	**2,606**	**377**	**7,549**
Vehicle depollution	51	41	9	30	110	2	**243**
Metal recycling site	3	34	51	84	1,278	129	**1,580**
Metal Recycling Sector Total	**54**	**75**	**60**	**114**	**1,388**	**131**	**1,823**

West Midlands: Waste deposit trends: Transfer and treatment deposits by site type, waste type and sub-region from 2000/1 to 2021
All figures are provided in 000s tonnes

Year	Site Type		Sub Region						WEST MIDLANDS
			Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Metropolitan Districts	Worcestershire	
2000/1	Transfer	Transfer	155	88	429	93	1,755	244	2,764
		Civic amenity	20	78	163	68	254	73	656
	Transfer Total		175	166	592	161	2,009	317	3,420
	Treatment	Material recovery	-	-	74	-	156	-	230
		Physical	-	48	94	-	636	13	791
		Chemical	-	-	-	-	2	-	2
		Composting	-	-	34	-	-	-	34
		Biological	-	23	-	104	-	-	127
	Treatment Total		-	71	202	104	794	13	1,184
	MRS	Metal recycling	10	54	96	59	1,509	82	1,810
	MRS Total		10	54	96	59	1,509	82	1,810
2000/1 Total			**185**	**291**	**890**	**324**	**4,312**	**412**	**6,414**
2002/3	Transfer	Transfer	130	133	668	372	2,076	192	3,571
		Civic amenity	-	9	21	10	38	81	158
	Transfer Total		130	142	689	382	2,113	273	3,730
	Treatment	Material recovery	-	-	102	-	122	86	310
		Physical	3	28	69	3	478	52	633
		Chemical	-	-	-	-	5	-	5
		Composting	-	-	130	-	-	-	130
		Biological	42	-	5	109	22	-	177
	Treatment Total		45	28	306	112	627	138	1,255
	MRS		15	66	95	112	1,604	28	1,920
	MRS Total		15	66	95	112	1,604	28	1,920
2002/3 Total			**190**	**236**	**1,089**	**606**	**4,344**	**439**	**6,905**
2004/5	Transfer	Transfer	120	191	644	559	2,320	207	4,042
		Civic amenity	5	42	14	6	49	88	203
	Transfer Total		125	233	658	564	2,369	296	4,245
	Treatment	Material recovery	2	-	100	-	95	14	211
		Physical	0	29	88	13	244	49	423
		Physico-chemical	-	-	-	-	211	6	217
		Chemical	-	-	-	-	1	-	1
		Composting	6	-	147	10	1	-	164
		Biological	77	-	6	2	40	-	125
	Treatment Total		85	29	341	25	593	68	1,141
	MRS	Vehicle dismantler	3	10	5	3	12	5	38
		Metal recycling	14	70	86	100	1,798	94	2,162
	MRS Total		17	80	91	103	1,810	98	2,200
2004/5 Total			**228**	**342**	**1,090**	**693**	**4,772**	**462**	**7,586**
2005	Transfer	Transfer	115	286	690	320	2,531	307	4,249
		Civic amenity	23	7	11	5	16	46	109
	Transfer Total		138	293	701	326	2,547	353	4,358
	Treatment	Material recovery	3	-	127	-	102	17	248
		Physical	0	27	125	24	290	41	507
		Physico-chemical	-	-	-	-	213	3	216
		Chemical	-	-	-	-	2	-	2
		Composting	12	5	130	22	1	-	171
		Biological	49	18	91	1	75	-	236
	Treatment Total		65	51	473	47	683	60	1,379
	MRS	Vehicle dismantler	3	11	11	3	33	17	79
		Metal recycling	12	45	90	99	1,792	100	2,138
	MRS Total		15	56	101	103	1,825	117	2,217
2005 Total			**217**	**400**	**1,275**	**475**	**5,055**	**531**	**7,954**
2006	Transfer	Transfer	130	187	705	559	2,251	240	4,073
		Civic amenity	30	111	11	12	127	433	724
	Transfer Total		160	298	716	571	2,378	673	4,796
	Treatment	Material recovery	4	-	105	-	131	16	256
		Physical	-	36	146	34	309	16	542
		Physico-chemical	-	-	-	-	245	-	245
		Chemical	-	-	-	-	11	-	11
		Composting	19	18	189	47	1	-	275
		Biological	39	19	67	1	58	-	184
	Treatment Total		62	73	508	82	755	32	1,512
	MRS	Vehicle dismantler	4	9	13	4	31	4	64
		Metal recycling	11	38	89	126	1,352	98	1,714
	MRS Total		15	47	102	130	1,383	102	1,779
2006 Total			**237**	**418**	**1,325**	**783**	**4,517**	**807**	**8,087**
2007	Transfer	Transfer	182	180	857	150	2,416	241	4,025
		Civic amenity	27	103	81	12	110	117	450
	Transfer Total		208	283	937	162	2,526	358	4,475
	Treatment	Material recovery	4	-	89	-	104	23	220
		Physical	-	46	178	30	206	43	502
		Physico-chemical	-	-	-	-	194	-	194
		Chemical	-	-	-	-	25	-	25
		Composting	15	25	252	63	12	-	367
		Biological	30	32	24	9	57	-	153
	Treatment Total		50	103	543	102	599	65	1,461
	MRS	Vehicle dismantler	3	11	8	3	15	7	46
		Metal recycling	9	40	76	167	1,521	102	1,915
	MRS Total		11	51	84	171	1,536	108	1,961
2007 Total			**269**	**437**	**1,563**	**434**	**4,661**	**532**	**7,897**
2008	Transfer	Transfer	188	225	634	138	2,154	266	3,604
		Civic amenity	27	85	74	12	76	71	345
	Transfer Total		215	309	708	150	2,230	337	3,949
	Treatment	Material recovery	5	-	43	-	84	22	152
		Physical	-	24	104	44	203	70	445
		Physico-chemical	-	0	43	-	211	-	254
		Chemical	-	-	-	-	17	-	17
		Composting	9	39	299	70	17	-	434
		Biological	28	36	54	57	106	-	281
	Treatment Total		41	99	543	171	637	91	1,582
	MRS	Vehicle dismantler	4	15	10	1	100	6	136
		Metal recycling	6	37	36	3	1,746	105	1,933

	MRS Total		10	52	46	5	1,847	110	2,069
2008 Total			**266**	**460**	**1,297**	**326**	**4,713**	**539**	**7,601**
2009	Transfer	Transfer	59	175	506	162	1,842	251	2,994
		Civic amenity	62	89	82	22	147	127	529
	Transfer Total		121	265	587	184	1,988	379	3,523
	Treatment	Material recovery	3	-	129	25	130	11	298
		Physical	60	32	21	48	338	65	564
		Physico-chemical	-	-	169	-	179	-	347
		Chemical	-	-	-	-	6	-	6
		Composting	-	53	215	86	11	-	365
		Biological	21	31	38	57	88	18	253
	Treatment Total		84	117	572	216	752	94	1,834
	MRS	Vehicle dismantler	3	13	14	4	109	22	166
		Metal recycling	4	36	48	143	1,312	92	1,635
	MRS Total		7	49	62	148	1,422	114	1,800
2009 Total			**212**	**430**	**1,220**	**547**	**4,162**	**586**	**7,157**
2010	Transfer	Transfer	87	259	495	196	1,831	250	3,118
		Civic amenity	18	86	76	20	98	84	383
	Transfer Total		105	345	572	216	1,928	335	3,501
	Treatment	Material recovery	4	11	78	26	91	62	273
		Physical	71	38	44	58	318	61	589
		Physico-chemical	-	-	133	-	163	-	295
		Chemical	-	-	-	-	5	-	5
		Composting	-	60	178	93	6	4	341
		Biological	26	55	32	62	157	67	398
	Treatment Total		101	164	464	239	739	194	1,901
	MRS	Vehicle depollution	1	5	13	3	236	21	279
		Metal recycling	5	28	41	142	1,716	89	2,021
	MRS Total		6	33	55	145	1,952	110	2,300
2010 Total			**212**	**542**	**1,091**	**599**	**4,619**	**638**	**7,702**
2011	Transfer	Transfer	87	408	489	164	1,862	288	3,299
		Civic amenity	27	96	76	56	88	95	437
	Transfer Total		114	503	565	220	1,950	383	3,736
	Treatment	Material recovery	5	18	174	97	114	75	484
		Physical	74	47	99	89	321	131	762
		Physico-chemical	-	-	166	-	189	-	355
		Chemical	-	-	-	-	11	-	11
		Composting	-	44	208	107	5	2	366
		Biological	25	88	70	66	200	55	504
	Treatment Total		104	197	718	359	840	263	2,481
	MRS	Vehicle depollution	2	26	12	2	135	16	192
		Metal recycling	12	31	59	163	1,772	166	2,202
	MRS Total		13	58	71	165	1,907	182	2,395
2011 Total			**231**	**758**	**1,354**	**744**	**4,696**	**828**	**8,611**
2012	Transfer	Transfer	94	446	484	191	1,878	363	3,456
		Civic amenity	27	90	75	47	94	67	400
	Transfer Total		121	536	559	239	1,973	430	3,857
	Treatment	Material recovery	6	26	121	170	183	71	576
		Physical	69	53	233	362	433	126	1,275
		Physico-chemical	-	-	175	-	217	-	392
		Chemical	-	-	-	-	9	-	9
		Composting	-	65	209	100	67	5	447
		Biological	53	101	90	88	298	49	678
	Treatment Total		128	244	828	719	1,207	251	3,377
	MRS	Vehicle depollution	2	40	10	2	151	19	223
		Metal recycling	10	30	51	91	1,393	398	1,972
	MRS Total		11	69	61	93	1,544	416	2,195
2012 Total			**260**	**849**	**1,448**	**1,051**	**4,723**	**1,097**	**9,428**
2013	Transfer	Transfer	96	339	485	231	2,118	322	3,591
		Civic amenity	25	89	64	45	114	64	402
	Transfer Total		121	428	549	276	2,232	387	3,993
	Treatment	Material recovery	7	18	142	160	193	70	589
		Physical	56	59	281	375	592	164	1,527
		Physico-chemical	-	-	176	-	216	-	392
		Chemical	-	-	-	-	4	-	4
		Composting	-	92	184	93	54	12	434
		Biological	53	174	114	144	337	70	892
	Treatment Total		116	343	896	772	1,395	315	3,838
	MRS	Vehicle depollution	2	36	21	3	119	25	205
		Metal recycling	11	20	25	103	1,089	132	1,380
	MRS Total		13	55	47	106	1,208	157	1,586
2013 Total			**250**	**826**	**1,492**	**1,154**	**4,836**	**858**	**9,416**
2014	Transfer	Transfer	95	381	544	295	2,332	300	3,947
		Civic amenity	28	99	56	46	140	68	437
	Transfer Total		123	480	600	341	2,473	368	4,384
	Treatment	Material recovery	-	8	148	173	477	85	891
		Physical	93	88	340	433	702	189	1,844
		Physico-chemical	-	-	181	-	246	-	426
		Chemical	-	-	-	-	3	-	3
		Composting	-	124	289	78	59	15	566
		Biological	80	257	121	133	391	124	1,107
	Treatment Total		173	478	1,078	817	1,878	414	4,837
	MRS	Vehicle depollution	24	39	18	19	102	18	220
		Metal recycling	7	22	32	103	1,303	93	1,561
	MRS Total		31	61	51	122	1,405	111	1,781
2014 Total			**327**	**1,018**	**1,729**	**1,281**	**5,756**	**893**	**11,003**
2015	Transfer	Transfer	101	398	518	294	2,302	255	3,866
		Civic amenity	29	79	142	47	160	77	534
	Transfer Total		130	476	660	341	2,462	332	4,400
	Treatment	Material recovery	-	24	157	182	565	89	1,017
		Physical	75	124	373	517	745	173	2,008
		Physico-chemical	-	-	184	-	271	-	455
		Chemical	-	-	-	-	4	-	4
		Composting	-	125	403	97	44	17	686
		Biological	159	275	199	236	310	73	1,251
	Treatment Total		233	549	1,316	1,032	1,939	352	5,421
	MRS	Vehicle depollution	25	67	18	14	104	17	245
		Metal recycling	7	19	21	96	1,319	94	1,557
	MRS Total		32	87	39	110	1,423	112	1,802
2015 Total			**395**	**1,111**	**2,015**	**1,483**	**5,823**	**796**	**11,623**
	Transfer	Transfer	147	243	590	284	2,484	275	4,022

	Transfer	Civic amenity	31	76	150	47	134	87	525
	Transfer Total		178	319	739	331	2,618	362	4,547
	Treatment	Material recovery	3	156	165	135	332	111	901
		Physical	64	141	338	619	977	92	2,230
		Physico-chemical	-	20	136	-	201	9	367
2016		Chemical	-	-	-	-	5	-	5
		Composting	-	129	235	110	38	20	532
		Biological	134	334	199	302	713	60	1,741
	Treatment Total		201	779	1,074	1,165	2,266	292	5,776
	MRS	Vehicle depollution	27	44	5	26	104	18	224
		Metal recycling	2	52	38	114	1,125	131	1,462
	MRS Total		29	96	43	140	1,230	149	1,686
2016 Total			**407**	**1,194**	**1,856**	**1,636**	**6,113**	**802**	**12,009**
	Transfer	Transfer	145	228	589	258	2,214	279	3,713
		Civic amenity	31	76	127	51	125	86	497
	Transfer Total		176	303	717	310	2,339	365	4,210
	Treatment	Material recovery	4	138	171	134	339	91	877
		Physical	101	147	406	679	1,026	109	2,467
		Physico-chemical	-	41	101	-	261	9	412
2017		Chemical	-	-	0	-	3	-	3
		Composting	-	146	223	79	98	22	567
		Biological	118	286	347	305	563	53	1,671
	Treatment Total		223	757	1,247	1,196	2,290	284	5,997
	MRS	Vehicle depollution	32	38	4	35	147	22	278
		Metal recycling	3	39	38	161	1,538	114	1,894
	MRS Total		35	77	43	196	1,685	136	2,172
2017 Total			**434**	**1,137**	**2,006**	**1,702**	**6,314**	**785**	**12,378**
	Transfer	Transfer	153	248	640	257	1,947	291	3,536
		Civic amenity	29	73	124	51	144	85	506
	Transfer Total		182	321	764	308	2,091	376	4,042
	Treatment	Material recovery	5	134	186	132	354	80	892
		Physical	113	142	429	701	1,225	198	2,809
		Physico-chemical	-	57	98	-	332	11	498
2018		Chemical	-	-	0	-	0	-	0
		Composting	-	114	208	128	33	14	497
		Biological	115	230	457	318	605	25	1,749
	Treatment Total		233	678	1,377	1,279	2,550	328	6,445
	MRS	Vehicle depollution	45	33	7	43	154	24	305
		Metal recycling	4	37	34	154	1,647	125	2,001
	MRS Total		49	69	42	196	1,801	149	2,306
2018 Total			**463**	**1,068**	**2,183**	**1,783**	**6,442**	**854**	**12,793**
	Transfer	Transfer	150	257	773	227	1,819	309	3,535
		Civic amenity	30	77	128	51	147	85	518
	Transfer Total		180	334	901	278	1,966	394	4,053
	Treatment	Material recovery	3	123	169	142	320	78	835
		Physical	90	141	526	624	1,680	162	3,223
		Physico-chemical	-	55	80	-	317	11	463
2019		Chemical	-	-	-	-	-	-	-
		Composting	-	125	252	136	40	23	576
		Biological	103	311	419	218	485	22	1,558
	Treatment Total		196	755	1,446	1,120	2,842	296	6,655
	MRS	Vehicle depollution	48	38	4	21	123	15	249
		Metal recycling	3	37	47	131	1,610	132	1,960
	MRS Total		51	75	51	152	1,733	147	2,209
2019 Total			**427**	**1,164**	**2,398**	**1,550**	**6,541**	**837**	**12,917**
	Transfer	Transfer	129	264	888	270	1,625	334	3,510
		Civic amenity	6	88	119	30	97	65	405
	Transfer Total		135	352	1,007	300	1,722	399	3,915
	Treatment	Material recovery	2	121	185	139	264	85	796
		Physical	75	146	708	1,824	1,542	164	4,459
		Physico-chemical	-	78	73	39	253	1	444
2020		Chemical	-	-	-	-	-	-	-
		Composting	-	124	222	145	33	16	540
		Biological	108	414	379	304	482	45	1,732
	Treatment Total		185	883	1,567	2,451	2,574	311	7,971
	MRS	Vehicle depollution	40	4	16	37	200	11	308
		Metal recycling	2	29	39	65	1,093	119	1,347
	MRS Total		42	33	55	102	1,293	130	1,655
2020 Total			**362**	**1,268**	**2,629**	**2,853**	**5,589**	**840**	**13,541**
	Transfer	Transfer	106	289	966	256	1,600	353	3,570
		Civic amenity	23	112	145	37	97	72	486
	Transfer Total		129	401	1,111	293	1,697	425	4,056
	Treatment	Material recovery	3	147	180	91	302	82	805
		Physical	97	178	945	1,071	1,482	222	3,995
		Physico-chemical	-	98	72	37	234	-	441
2021		Chemical	-	-	-	-	-	-	-
		Composting	-	108	193	189	37	22	549
		Biological	99	425	356	277	551	51	1,759
	Treatment Total		199	956	1,746	1,665	2,606	377	7,549
	MRS	Vehicle depollution	51	41	9	30	110	2	243
		Metal recycling	3	34	51	84	1,278	129	1,580
	MRS Total		54	75	60	114	1,388	131	1,823
2021 Total			**382**	**1,432**	**2,917**	**2,072**	**5,691**	**933**	**13,428**

West Midlands: Incineration throughput 2021

All figures provided in 000s tonnes

Incineration Type	Sub-Region						WEST MIDLANDS
	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Met Districts	Worcestershire	
Animal By-Product	-	-	-	-	-	-	-
Animal Carcasses	-	-	-	-	-	-	-
Clinical	-	-	-	-	-	8	**8**
Co-Incineration of Hazardous Waste	-	-	-	-	-	-	-
Co-Incineration of Non Hazardous Waste	-	-	67	165	-	-	**232**
Hazardous	-	-	-	-	3	-	**3**
Municipal and/or Industrial & Commercial	-	99	524	-	880	216	**1,719**
Sewage Sludge	-	-	-	-	-	-	-
Biomass/Wood Waste	-	-	-	18	49	-	**67**
Total	**-**	**99**	**591**	**183**	**931**	**224**	**2,028**

Table Notes:
This datatable is for operational incineration facilities that accepted waste from off-site sources. It does not include facilities that burned waste from their own in-house processes or were non or pre-operational.

West Midlands: Incineration capacity 2021

All figures provided in 000s tonnes

Incineration Type	Sub-Region						WEST MIDLANDS
	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Met Districts	Worcestershire	
Animal By-Product	-	-	-	-	-	-	-
Animal Carcasses	-	-	-	-	-	-	-
Clinical	-	-	-	-	-	10	**10**
Co-Incineration of Hazardous Waste	-	-	-	-	-	-	-
Co-Incineration of Non Hazardous Waste	-	-	120	289	-	-	**409**
Hazardous	-	-	-	-	7	-	**7**
Municipal and/or Industrial & Commercial	-	102	550	-	938	200	**1,790**
Sewage Sludge	-	-	-	-	-	-	-
Biomass/Wood Waste	-	-	-	44	72	-	**116**
Total	**-**	**102**	**670**	**333**	**1,017**	**210**	**2,332**

Table Notes:
This datatable is for operational incineration facilities that accepted waste from off-site sources. It does not include facilities that burned waste from their own in-house processes or were non or pre-operational.

West Midlands: Borehole and lagoon inputs 2021

All figures are provided in 000s tonnes

Site Type	Sub-Region						WEST MIDLANDS
	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Met Districts	Worcestershire	
Borehole	-	-	-	-	-	-	-
Lagoon	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

West Midlands: Deposit in landfill for recovery inputs 2021

All figures are provided in 000s tonnes

Site Type	Sub-Region						WEST MIDLANDS
	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Met Districts	Worcestershire	
Deposit in landfill for recovery	10	1	704	1,384	185	8	**2,292**
Total	**10**	**1**	**704**	**1,384**	**185**	**8**	**2,292**

Note: This activity is the deposit of waste in land for benefit and recovery purposes. Landfilling is the deposit in land for the purposes of final disposal.
Both activities require an environmental permit under the Environmental Permitting Regulations.

West Midlands: Use of waste inputs 2021

All figures provided in 000s tonnes

Site Type	Sub Region						WEST MIDLANDS
	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Met Districts	Worcestershire	
Use of waste in construction	-	-	-	-	-	-	-
Use of waste in reclamation	-	-	-	-	-	-	-
Use of waste for timber manufacturing	-	-	-	-	32	5	37
Total	**-**	**-**	**-**	**-**	**32**	**5**	**37**

Note: These activities are for use of waste permitted under Standard Rules Permits for waste operations.

West Midlands: Hazardous waste managed by EWC chapter and former planning sub-region 2021 (tonnes)

EWC Chapter	EWC Chapter Description	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Met Districts	Worcestershire	WEST MIDLANDS
01	Mining and Minerals	-	23	-	-	3	-	**26**
02	Agricultural and Food Production	2	25	22	1	20	2	**71**
03	Wood and Paper Production	0	3	0	0	5	56	**64**
04	Leather and Textile Production	-	-	0	-	0	0	**1**
05	Petrol, Gas and Coal Refining/Treatment	2	12	11	14	76	21	**136**
06	Inorganic Chemical Processes	47	518	921	132	1,579	1,718	**4,915**
07	Organic Chemical Processes	21	225	6,958	71	1,440	1,646	**10,362**
08	MFSU Paints, Varnish, Adhesive and Inks	874	372	3,746	1,094	5,649	1,084	**12,821**
09	Photographic Industry	0	22	26	36	62	7	**154**
10	Thermal Process Waste (inorganic)	32	133	1,768	684	2,219	241	**5,077**
11	Metal Treatment and Coating Processes	1,034	3,344	3,726	606	9,660	463	**18,833**
12	Shaping/Treatment of Metals and Plastics	248	2,473	2,416	2,304	8,376	4,870	**20,686**
13	Oil and Oil/Water Mixtures	2,030	9,529	15,872	6,418	34,653	24,217	**92,719**
14	Solvents	53	356	967	184	3,025	333	**4,917**
15	Packaging, Cloths, Filter Materials	589	1,055	3,497	1,710	8,303	1,253	**16,408**
16	Not Otherwise Specified*	5,919	7,017	15,147	9,951	62,647	6,305	**106,987**
17	C&D Waste and Asbestos	757	4,007	13,667	18,721	78,450	6,542	**122,144**
18	Healthcare	557	1,727	3,310	1,778	12,734	2,494	**22,600**
19	Waste Treatment /Water Treatment and Water Industry	62	2,645	22,240	7,884	47,702	18,428	**98,960**
20	Municipal and Similar Commercial Wastes	314	4,069	6,480	4,047	28,134	2,931	**45,976**
Total		**12,541**	**37,555**	**100,776**	**55,637**	**304,738**	**72,611**	**583,857**

Notes:
The Environment Agency is required to monitor registered hazardous waste movements. The data published here is a summary of these movements. The same waste may be moved between multiple facilities and each separate movement is recorded. This double counting should be taken into account when using this data.
EWC Chapter 16 contains a mix of coded wastes including wastes from end-of-life vehicles, waste electrical and electronic equipment, batteries, spent catalysts and aqueous solutions

West Midlands: Hazardous waste deposited by EWC chapter and former planning sub-region 2021 (tonnes)

EWC Chapter	EWC Chapter Description	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Met Districts	Worcestershire	WEST MIDLANDS
01	Mining and Minerals	-	-	5	1	0	13	**19**
02	Agricultural and Food Production	-	-	102	0	63	2	**168**
03	Wood and Paper Production	-	-	1	-	94	5	**100**
04	Leather and Textile Production	-	-	1	-	37	1	**40**
05	Petrol, Gas and Coal Refining/Treatment	-	-	9	-	932	8	**949**
06	Inorganic Chemical Processes	-	-	4,379	35	5,981	581	**10,975**
07	Organic Chemical Processes	-	-	5,887	25	4,416	1,455	**11,783**
08	MFSU Paints, Varnish, Adhesive and Inks	1	-	8,081	198	10,724	3,920	**22,923**
09	Photographic Industry	-	0	6	0	71	56	**134**
10	Thermal Process Waste (inorganic)	-	-	2,221	17,776	319	83	**20,399**
11	Metal Treatment and Coating Processes	-	-	2,028	11	14,883	543	**17,465**
12	Shaping/Treatment of Metals and Plastics	-	-	739	3,510	24,358	486	**29,094**
13	Oil and Oil/Water Mixtures	38	63	15,021	6,373	67,878	22,221	**111,595**
14	Solvents	-	-	548	39	2,330	1,241	**4,158**
15	Packaging, Cloths, Filter Materials	0	4	8,392	167	19,764	1,820	**30,147**
16	Not Otherwise Specified*	5,446	2,536	16,327	3,673	76,755	4,449	**109,186**
17	C&D Waste and Asbestos	348	230	132,845	10,130	168,006	10,993	**322,552**
18	Healthcare	0	15,768	2,359	34	6,532	7,691	**32,384**
19	Waste Treatment /Water Treatment and Water Industry	-	-	41,452	1,711	75,742	30,041	**148,945**
20	Municipal and Similar Commercial Wastes	56	36,210	7,780	1,473	35,012	4,054	**84,585**
Total		**5,890**	**54,811**	**248,185**	**45,154**	**513,898**	**89,663**	**957,601**

Notes:
The Environment Agency is required to monitor registered hazardous waste movements. The data published here is a summary of these movements. The same waste may be moved between multiple facilities and each separate movement is recorded. This double counting should be taken into account when using this data.
EWC Chapter 16 contains a mix of coded wastes including wastes from end-of-life vehicles, waste electrical and electronic equipment, batteries, spent catalysts and aqueous solutions

West Midlands: Hazardous waste deposited by fate and former planning sub-region 2021 (tonnes)

Waste Fate	Herefordshire	Shropshire	Staffordshire	Warwickshire	West Midlands Met Districts	Worcestershire	WEST MIDLANDS
Incineration with energy recovery	-	-	7,159	-	579	-	**7,739**
Incineration without energy recovery	-	0	0	-	3,655	6,867	**10,522**
Landfill	-	-	2	9,878	775	9,631	**20,285**
Long term storage	-	-	-	-	57	-	**57**
Other Fate	-	-	3	-	-	-	**3**
Recovery	4,824	50,227	174,280	30,035	121,340	37,622	**418,328**
Rejected	-	-	-	235	1,802	-	**2,038**
Transfer (D)	465	2,359	12,127	579	30,707	4,011	**50,249**
Transfer (R)	600	2,211	26,747	4,408	126,706	31,532	**192,204**
Treatment	-	13	27,868	19	228,276	-	**256,176**
Total	**5,890**	**54,811**	**248,185**	**45,154**	**513,898**	**89,663**	**957,601**

Notes:

The Environment Agency is required to monitor registered hazardous waste movements. The data published here is a summary of these movements. The same waste may be moved betwee multiple facilities and each separate movement is recorded. This double counting should be taken into account when using this data.

Transfer (D) means transfer before disposal, Transfer (R) means transfer before recovery.

In previous years Recovery was called Recycling/reuse.

In previous years the Landfill category included deep injection, land treatment and surface impoundment. These are now included in Other Fate.

West Midlands: Hazardous waste trends from 1998 to 2021

The Environment Agency is required to monitor registered hazardous waste movements. The data published here is a summary of these movements. The same waste may be moved between multiple facilities and each separate movement is recorded. This double counting should be taken into account when using this data.
EWC Chapter 16 contains a mix of coded wastes including wastes from end-of-life vehicles, waste electrical and electronic equipment, batteries, spent catalysts and aqueous solutions
2005 data is unreliable and has not been included in the above tables; a new hazardous waste management system and database was introduced in mid-2005 to coincide with the introduction of the new Hazardous Waste Regulations, classification and data collection changes introduced some inconsistency and some data was lost as new systems took a little time to become fully operational.
In previous years Recovery was called Recycling/reuse.
In previous years the Landfill category included deep injection, land treatment and surface impoundment. These are now included in Other Fate.

West Midlands: Hazardous waste managed by EWC chapter from 1998 to 2021 (tonnes)

EWC chapter	EWC Chapter Description	1998/9	2000	2001	2002	2003	2004	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
01	Mining and Minerals	600	2	51	13	127	210	37	59	26	72	32	135	1,935	238	89	20	24	40	23	16	39	26
02	Agricultural and Food Production	388	148	378	341	225	235	20	15	20	22	25	66	38	23	46	128	75	22	45	23	27	71
03	Wood and Paper Production	174	232	288	261	485	926	341	432	293	319	63	74	196	44	61	227	117	234	108	73	52	64
04	Leather and Textile Production	3	6	16	6	12	187	6	0	31	0	4	3	6	26	13	3	10	4	12	11	2	1
05	Petrol, Gas and Coal Refining/Treatment	17,158	1,310	789	339	162	9,473	168	231	318	399	144	32	94	221	223	48	60	428	115	130	155	136
06	Inorganic Chemical Processes	40,715	48,828	33,059	26,458	20,290	16,306	7,667	6,052	5,179	5,866	4,991	7,194	6,363	5,570	4,712	5,379	5,864	5,745	5,820	5,640	4,383	4,915
07	Organic Chemical Processes	33,856	29,484	43,667	49,225	25,535	26,121	10,572	9,751	7,350	6,627	10,975	14,645	14,869	14,780	16,830	14,676	11,670	12,783	12,865	12,030	9,373	10,362
08	MFSU Paints, Varnish, Adhesive and Inks	25,826	24,445	19,277	18,631	17,905	17,425	11,580	11,760	12,616	11,359	12,214	12,934	13,324	13,055	12,861	14,201	14,996	14,553	15,169	13,632	12,105	12,821
09	Photographic Industry	1,055	802	2,799	3,862	544	1,314	1,448	1,194	1,048	1,022	818	838	879	842	712	514	453	320	259	272	169	154
10	Thermal Process Waste (inorganic)	10,382	20,474	35,813	37,798	23,852	26,981	27,494	24,402	19,595	38,596	35,751	27,689	15,036	12,436	5,551	14,644	20,810	22,042	20,263	20,672	27,318	5,077
11	Metal Treatment and Coating Processes	34,712	26,532	38,340	28,997	29,677	32,507	34,036	28,012	29,597	21,771	20,170	21,159	24,846	26,194	25,845	24,050	27,555	26,898	27,908	24,223	19,266	18,833
12	Shaping/Treatment of Metals and Plastics	53,724	23,367	27,293	26,843	32,419	33,016	23,756	25,077	26,879	15,737	19,124	19,632	22,483	23,323	26,809	26,935	25,652	27,424	24,224	23,170	19,605	20,686
13	Oil and Oil/Water Mixtures	132,827	126,234	116,194	122,856	94,950	83,900	110,893	117,856	106,930	94,071	89,089	98,853	107,634	105,723	102,276	103,455	98,731	93,643	86,960	86,480	89,308	92,719
14	Solvents	2,792	2,486	3,154	2,050	2,313	3,139	2,258	1,813	2,146	2,442	3,448	4,949	4,119	3,753	3,604	4,239	3,895	3,357	3,254	4,332	4,071	4,917
15	Packaging, Cloths, Filter Materials	10,719	13,514	17,681	9,337	10,998	10,250	9,424	11,427	10,458	9,594	11,104	11,329	11,613	13,423	15,734	18,084	16,795	17,722	17,046	16,952	14,313	16,408
16	Not Otherwise Specified*	42,142	38,346	39,348	39,284	45,574	47,907	89,855	85,496	88,887	72,901	75,370	71,015	76,544	75,942	74,312	83,694	83,972	94,034	113,617	100,873	90,816	106,987
17	C&D Waste and Asbestos	94,837	79,209	106,401	104,235	263,728	127,331	85,994	66,303	69,764	36,273	33,390	252,346	83,852	73,742	73,359	62,236	57,348	70,069	93,557	89,587	71,710	122,144
18	Healthcare	888	466	1,173	876	804	1,160	19,020	16,984	18,109	20,859	22,078	17,735	16,980	18,734	18,318	22,859	20,615	15,141	16,295	16,597	18,325	22,600
19	Waste/Water Treatment and Water	74,384	50,514	73,949	50,918	56,497	68,179	88,594	93,120	134,585	89,854	73,938	73,560	66,183	66,238	70,936	62,882	77,236	71,583	80,469	88,634	90,478	98,960
20	Municipal and Similar Commercial Wastes	8,028	80,210	6,494	5,446	4,671	5,460	20,582	23,986	25,110	20,650	16,391	19,736	17,554	16,760	30,045	42,353	48,559	36,485	32,438	39,440	39,367	45,976
99	Unclassified	13,908	8,933	14,714	13,800	33,767	15,539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	**599,118**	**575,541**	**580,878**	**541,575**	**664,535**	**527,565**	**543,746**	**523,970**	**558,942**	**448,433**	**429,119**	**653,925**	**484,545**	**471,067**	**482,336**	**500,625**	**514,438**	**512,528**	**550,446**	**542,789**	**510,882**	**583,857**

West Midlands: Hazardous waste deposited by EWC chapter from 1998 to 2021 (tonnes)

EWC chapter	EWC Chapter Description	1998/9	2000	2001	2002	2003	2004	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
01	Mining and Minerals	22	10	40	3	51	218	63	135	56	112	87	29	49	59	48	43	62	38	30	271	128	19
02	Agricultural and Food Production	129	160	368	581	761	656	32	41	54	35	118	92	34	44	70	185	160	69	78	88	67	168

03	Wood and Paper Production	362	432	584	575	1,347	2,176	1,376	715	832	411	168	326	360	232	295	552	492	443	383	226	263	100
04	Leather and Textile Production	22	14	19	8	32	70	47	75	50	17	84	7	23	31	21	11	15	15	12	8	14	40
05	Petrol, Gas and Coal Refining/Treatment	3,400	2,866	1,643	1,354	3,715	3,274	1,033	7,988	11,535	9,865	2,238	2,295	3,313	2,664	2,716	833	812	5,016	1,081	1,165	986	949
06	Inorganic Chemical Processes	58,000	60,323	36,164	30,873	26,535	29,985	12,527	10,955	18,317	13,117	10,044	18,232	23,455	19,490	17,933	16,494	14,607	10,405	10,178	11,006	11,225	10,975
07	Organic Chemical Processes	28,450	34,932	31,297	23,536	21,883	26,890	14,177	11,289	11,640	13,662	23,966	24,763	31,366	32,942	32,886	25,611	21,003	29,898	29,725	16,137	14,518	11,783
08	MFSU Paints, Varnish, Adhesive and Inks	17,368	15,008	13,461	14,201	15,659	21,799	16,126	14,760	12,783	10,889	10,805	11,157	10,494	10,834	11,288	13,299	17,770	17,185	19,847	20,023	20,607	22,923
09	Photographic Industry	397	595	1,565	1,161	3,338	4,898	954	426	572	534	408	356	717	971	763	610	458	236	175	227	194	134
10	Thermal Process Waste (inorganic)	7,021	29,920	21,056	33,406	23,565	24,899	21,436	19,197	11,526	30,478	25,491	10,053	17,548	16,832	17,768	25,761	28,961	16,383	15,666	16,563	18,068	20,399
11	Metal Treatment and Coating Processes	45,951	36,317	53,532	39,483	39,927	39,641	43,155	38,003	44,442	30,773	25,172	25,915	25,448	27,523	29,433	27,092	28,660	30,729	29,383	26,824	21,498	17,465
12	Shaping/Treatment of Metals and Plastics	54,157	28,518	33,293	32,601	44,733	44,896	33,031	36,172	46,108	31,239	35,252	35,267	38,893	37,228	40,571	39,196	36,675	37,363	35,489	35,134	28,780	29,094
13	Oil and Oil/Water Mixtures	172,663	175,934	196,962	187,068	162,329	141,229	134,019	135,542	160,067	126,434	159,694	181,063	188,255	176,703	157,599	147,234	149,390	151,030	143,106	160,525	126,805	111,595
14	Solvents	3,140	2,197	6,153	1,959	1,590	2,488	3,582	2,602	3,885	3,887	2,888	3,104	2,605	2,380	2,508	3,220	3,811	3,057	2,807	3,399	3,410	4,158
15	Packaging, Cloths, Filter Materials	9,484	12,755	13,235	9,188	12,888	12,111	13,703	19,202	17,412	14,106	15,632	16,722	19,379	22,543	25,181	29,636	30,948	35,103	30,603	29,017	28,185	30,147
16	Not Otherwise Specified*	37,891	20,868	43,476	41,839	39,548	50,799	100,093	87,545	93,324	75,531	73,281	80,184	77,813	81,161	73,046	81,266	80,878	104,044	104,885	110,293	101,530	109,186
17	C&D Waste and Asbestos	90,981	77,558	98,661	116,796	230,648	215,632	49,879	50,808	73,207	32,403	27,421	335,271	70,682	55,019	140,457	125,259	100,661	102,792	227,057	238,227	197,769	322,552
18	Healthcare	1,569	632	1,017	963	1,151	1,980	28,071	23,906	23,966	27,410	28,408	23,868	22,269	26,650	27,323	29,174	29,487	21,405	25,526	23,905	26,591	32,384
19	Waste/Water Treatment and Water Industry	62,334	41,673	59,414	36,097	40,793	29,455	60,871	68,212	82,898	90,782	74,981	85,298	87,270	89,813	88,893	86,188	98,312	101,373	96,021	113,700	139,635	148,945
20	Municipal and Similar Commercial Wastes	1,075	551	388	414	774	1,267	26,436	39,923	44,120	32,403	26,713	27,839	24,719	23,579	29,334	50,221	51,143	48,721	59,609	70,317	72,553	84,585
99	Unclassified	17,677	11,237	17,726	19,179	36,437	17,913	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	**612,094**	**552,500**	**630,057**	**591,284**	**707,703**	**672,277**	**560,609**	**567,496**	**656,795**	**544,086**	**542,850**	**881,843**	**644,691**	**626,699**	**698,134**	**701,888**	**694,305**	**715,305**	**831,662**	**877,056**	**812,826**	**957,601**

West Midlands: Hazardous waste deposited by fate from 1998 to 2021 (tonnes)

Year	Incineration with energy recovery	Incineration without energy recovery	Landfill	Long term storage	Recovery	Transfer (Short term)	Treatment	Other	Total
1998/9	786	541	199,008	-	34,169	51,759	305,550	2,340	**594,154**
2000	609	428	161,893	-	86,074	69,463	222,754	-	**541,220**
2001	506	283	174,295	-	131,610	78,925	226,583	-	**612,203**
2002	432	118	206,433	-	101,323	87,647	195,331	-	**591,284**
2003	378	313	285,771	9	83,888	102,909	234,435	-	**707,703**
2004	626	573	228,686	-	79,011	119,879	243,501	-	**672,277**
2006	8,365	9,259	42,561	3	126,831	180,705	192,601	285	**560,609**
2007	10,341	8,369	54,075	44	120,386	201,442	172,151	691	**567,496**
2008	9,386	8,511	72,343	4	122,764	249,122	193,625	1,041	**656,795**
2009	8,152	8,838	45,182	240	126,860	198,203	156,279	331	**544,086**
2010	7,874	8,690	27,903	268	145,507	185,953	166,276	378	**542,850**
2011	15,438	7,821	332,892	-	137,658	190,032	197,715	288	**881,843**
2012	11,313	6,100	60,222	-	241,072	151,345	174,131	508	**644,691**
2013	14,117	7,070	23,884	-	241,374	161,150	178,424	682	**626,699**
2014	8,490	8,937	84,682	-	257,792	157,811	180,103	319	**698,134**
2015	6,641	7,253	74,169	3	241,420	193,001	178,900	501	**701,888**
2016	9,123	6,927	30,039	-	228,278	224,178	195,457	302	**694,305**
2017	22,900	6,498	23,761	-	236,159	246,772	178,432	782	**715,305**
2018	12,254	9,719	20,339	-	289,137	236,170	263,365	679	**831,662**
2019	18,428	9,623	30,374	-	283,819	270,716	263,588	508	**877,056**
2020	22,585	10,293	25,069	1	274,847	226,951	252,466	614	**812,826**
2021	**7,739**	**10,522**	**20,285**	**57**	**418,328**	**242,453**	**256,176**	**2,040**	**957,601**