

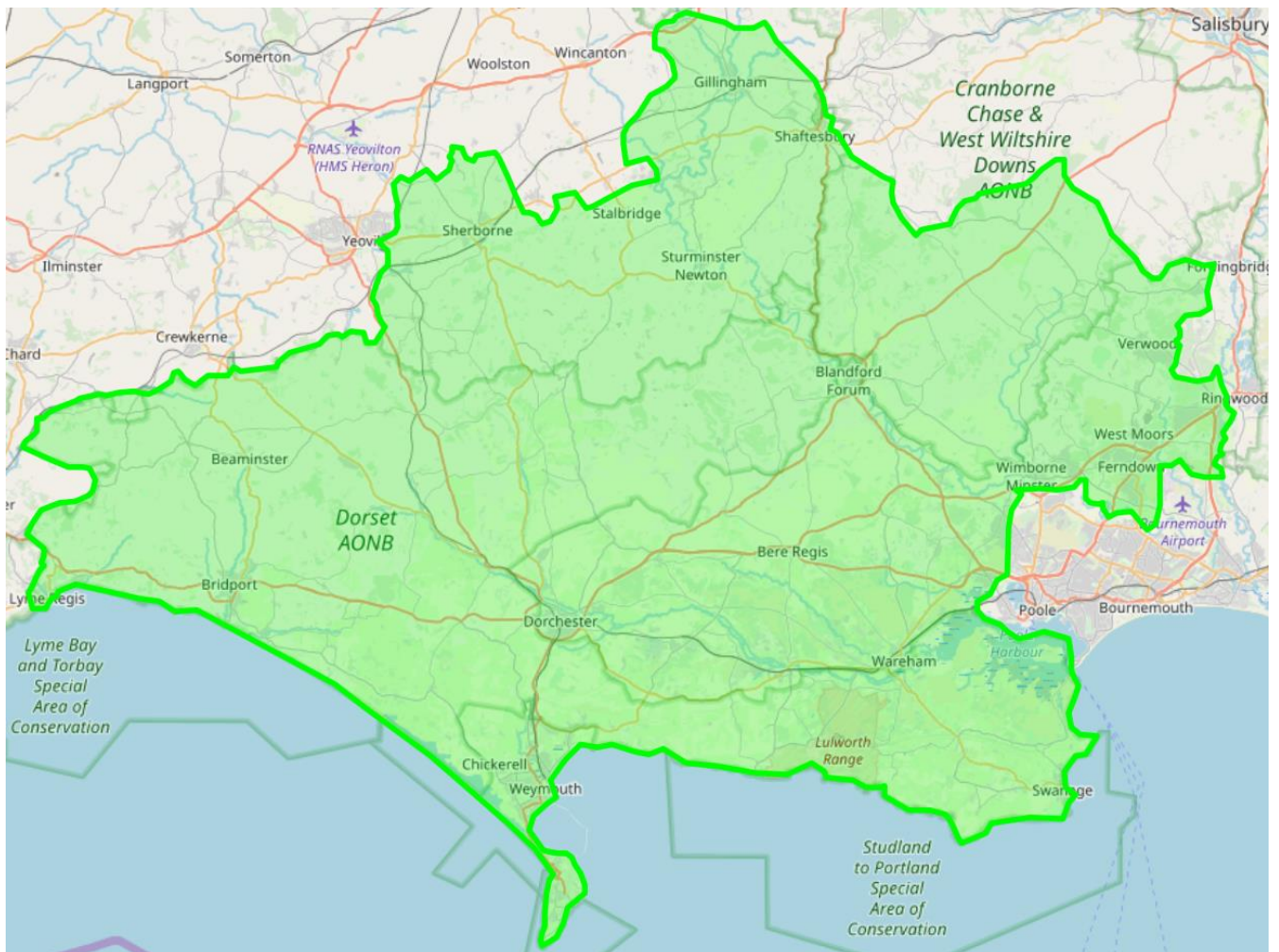


Dorset
Council



Waste Treatment and Disposal Contract

Supporting Information for Tender Ref: DN399330



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1. Introduction to Dorset Council

From 1 April 2019 the county's nine councils were replaced by two entirely new organisations:

- Dorset Council, and
- Bournemouth, Christchurch and Poole Council

The new Dorset Council replaced the district and borough councils of East Dorset, North Dorset, Purbeck, West Dorset and, Weymouth and Portland and Dorset County Council, all of which no longer exist. Dorset Council delivers local services, working in partnership with parish and town councils.

Why did the councils change?

Dorset Council was created to:

1. Protect important services for residents including waste collections, housing, road maintenance, schools and social care
2. Reduce costs and give better value for money by cutting duplication
3. Give Dorset a stronger voice nationally to help attract business investment and government funding and support local economic growth

The Dorset Waste Partnership (DWP) provides services as part of Dorset Council's Place Directorate.

2. Background to the DWP

The DWP was launched in April 2011, bringing together seven Dorset councils in an equal partnership to provide waste, recycling and street cleaning services on behalf of its partners .

The previous partner councils of the DWP were:

- Christchurch Borough Council
- Dorset County Council
- East Dorset District Council
- North Dorset District Council
- Purbeck District Council
- West Dorset District Council
- Weymouth and Portland Borough Council

The DWP was not a separate legal body. It was hosted by one of its partners, Dorset County Council.

The DWP is now part of Dorset Council, having retained independent branding for the meantime.

For the period April 2019 to March 2020 the DWP will continue to deliver waste services in the former Christchurch Borough Council area. These will then be passed back to the new BCP council from April 2020. Waste from this area will not form part of this contract opportunity.

2.1 Household Kerbside Collections

One of the stand out achievements for the DWP is the delivery of a uniform kerbside collection service across the entire administrative area. The kerbside collection service is known as the Recycle for Dorset service and comprises of a:

- Fortnightly residual waste collection from a 140ltr wheeled bin
- Fortnightly recycling collection from a 240ltr wheeled bin and kerbside box for separate glass
- Weekly food waste collection from a 23ltr caddy
- Charged fortnightly garden waste service from a 240ltr bin operated all year round

For further details please see the following links:

<https://www.dorsetcouncil.gov.uk/bins-recycling-and-litter/what-goes-in-which-bin/which-bin-do-i-use.aspx>

<https://www.dorsetcouncil.gov.uk/bins-recycling-and-litter/garden-waste/how-the-garden-waste-service-works.aspx>

2.2 Household Recycling Centres (HRCs)

The DWP provides 11 HRCs which are operated under contract by Weymouth and Sherborne Recycling. This includes one HRC in Christchurch that DWP continue to run on behalf of BCP, which prior to the formation of Dorset Council was part of the DWP administrative area. It is not anticipated that DWP will be involved in the administration of this site after 1 April 2020.

This contract also covers all the haulage of residual, green, wood, food and street sweeping from the authority's waste transfer stations (WTSs) and HRCs.

See Appendix 1 for HRC & WTS addresses and planning details

2.3 Bulky Waste Collections

The DWP provides a bulky household waste collection service via contract with the Dorset based furniture reuse charity Dorset Reclaim. Full details of this service are available via the following link:

<https://www.dorsetcouncil.gov.uk/bins-recycling-and-litter/bulky-waste-collection.aspx>

2.4 Commercial Waste Collections

A Dorset Council wide commercial waste service is also operated by the DWP. Full details of these services can be viewed using the following link:

<https://www.dorsetcouncil.gov.uk/bins-recycling-and-litter/commercial-waste/commercial-waste.aspx>

2.5 Street Cleaning

The DWP is responsible for all street cleaning within the Dorset Council area, including mechanical road sweeping and the removal of fly-tips.

3. Project Background

The DWP is responsible for the collection and disposal of controlled waste within the Dorset Council administrative area. This is a statutory function as detailed within the Environmental Protection Act 1990 (EPA).

This project relates specifically to the duties required of Unitary Authorities and in particular the following extract from the EPA.

“(S)51 Functions of waste disposal authorities. E+W

It shall be the duty of each waste disposal authority to arrange—
for the disposal of the controlled waste collected in its area by the waste collection authorities;”

Some waste material collected at the HRCs is also in scope for this project – green waste, wood waste, food waste.

Disposal of residual waste from HRCs is excluded and is under contract until 2024.

Currently the DWP achieves the treatment and disposal of the waste streams that form part of this tender (not sure this is correct terminology, but needs to be clear that you are referring to the services described in here and that are on offer, I think?) by providing a network of third-party delivery points for all the waste streams it collects. Contracts providing disposal for organic and residual waste are due to expire between end August 2020 and 31 August 2021 for almost all wastes handled by the DWP.

These contracts have been extended to their fullest and require retendering to ensure the DWPs statutory obligations continue to be met.

Democratic Approval

The DWP Joint Committee of 15 January 2018 considered a paper on the waste disposal contract strategy and resolved to delegate authority to the Director of DWP, in consultation with the chair of Joint Committee, to;

- award contract(s) and agree terms for additional residual waste treatment capacity with existing providers where this is in the scope of existing contracts and cost effective;

- conduct a procurement exercise, agree terms and award short to medium term contracts to secure capacity for residual waste treatment/disposal from August 2020 and August 2021 when the current landfill and waste treatment contracts expire;
- conduct a procurement exercise, agree terms and award contracts for the treatment of organic waste from August 2020

Market Engagement

To assist in the development and design of the procurement strategy, expressions of interest were sought via advert and individual suppliers then invited to attend a series of market engagement events to discuss what they considered reasonable and attractive bidding opportunities, specifically in relation to what they could offer in Dorset. The first round of market engagement for residual waste took place during summer 2017 to inform the Joint Committee report. All events were carried out alongside officers from Poole and Bournemouth Councils.

Three events in total were held which were well attended by both local and national contractors. The dates of these and key findings from each are summarised below.

i. Summer 2017 for residual waste

ii. Summer 2018 (organics):

- There was general support for awarding the various organic waste streams in lots
- A contract term in the region of 7-10 years was considered most financially beneficial to the authorities
- Containment methods made little impact on projected bids for food waste – i.e. plastic bags, corn starch etc

iii. October 2018 (residual waste and organics):

- Advice was to aim to keep things simple and “avoid gold plating”, keeping contracts focused and specific to the services required
- Ensuring KPIs are meaningful and not too onerous was valued
- Though guaranteed tonnage would be preferred, exclusivity was considered largely acceptable
- Lot sizes that reflect real capacity rather than total available waste were considered preferable
- In respect of limiting both Authority and Contractor liabilities for termination a 12month service payment liability cap was considered reasonable

4. Waste available for tender

4.1 Residual Waste

This Waste is derived from fortnightly domestic kerbside refuse collections from households which have access to a weekly food waste collection within the Administrative Area including residual waste collected from commercial waste customers, as well as municipal waste from litter bins, street cleaning, beach cleaning and municipal parks and gardens.

This Waste consists of material with the following European Waste Catalogue Codes:

Category of waste	EWG - European Waste Catalogue Code
Municipal Waste	20 03 01 mixed municipal waste 20 03 03 street cleansing residues and 20 03 02 waste from markets

4.1.1 Arisings 18/19

All 18/19 tonnage figures have Christchurch volumes removed

Residual Waste - Source Distribution 18/19 (tonnes)		
WTS - Bulker	40,938	69%
Blandford WTS	8,843	
Bridport WTS	7,189	
Sherborne WTS	8,642	
Weymouth WTS	16,264	
		Total Tonnes
		58,908
Direct Delivery - RCV	17,970	31%
Ferndown Depot	12,205	
Wareham Depot	5,765	

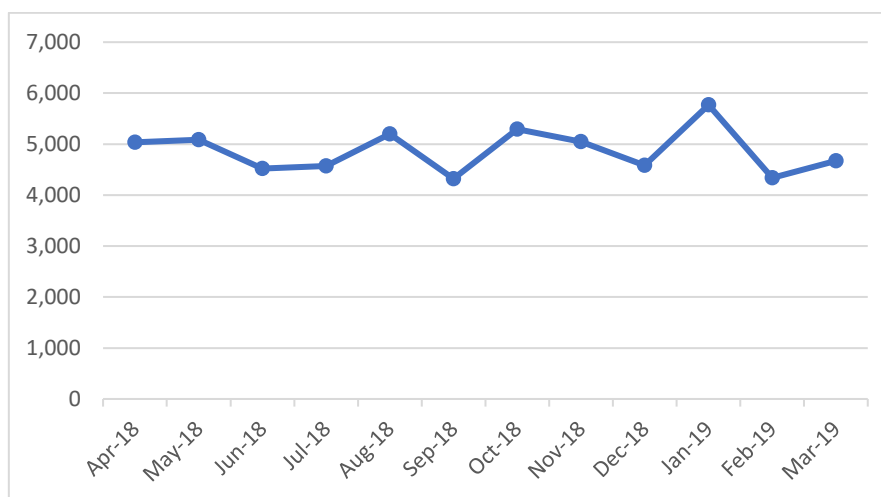


Figure 1. 2018/19 Total DWP residual waste arisings

4.1.2 Composition Analysis / CV

A desk-based CV analysis based on waste analysis information can be found in Appendix 2.

4.2 Bulky Waste

This Waste is derived from the Authority's bulky household waste collection activity, fly tip clearance, and HRCs. Historically, this Waste has been Landfilled.

This Waste consists of material with the following European Waste Catalogue Codes:

Category of waste	EWC - European Waste Catalogue Code	
Municipal Waste	20 03 01	mixed municipal waste
	20 03 07	bulky waste

4.2.1 Arisings 18/19

All 18/19 tonnage figures have Christchurch volumes removed

Bulky Waste Source Distribution 18/19 (tonnes)	
Bulky Total	1,443
Ferndown Depot RCV	440
Wareham Depot RCV	497
HRC Processing Rejects - RORO	250
Bulky HH Collections - Tail Lift	256

This waste is derived from green waste collected separately from across the Authority's HRC and transfer station network within the Administrative Area, as well as garden waste collected from households as part of a Fortnightly nightly garden waste kerbside collection service from subscribed homes

Category of waste	EWC - European Waste Catalogue Code
Biodegradable waste	20 02 01

All 18/19 tonnage figures have Christchurch volumes removed

4.3.2 HRC Distribution

4.3.3 Historic Arisings

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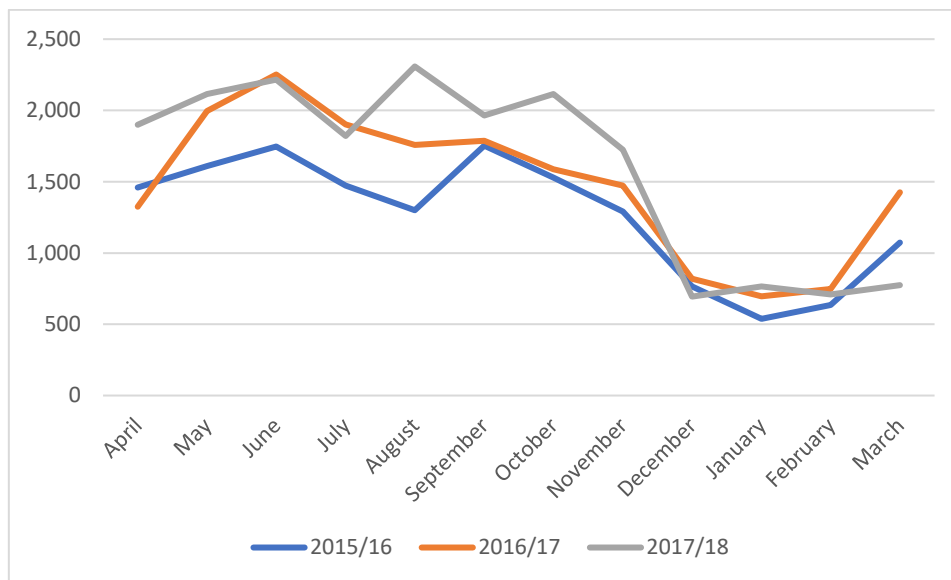


Figure 2. DWP Kerbside collected green waste arisings - NB includes Christchurch Tonnage which is not in scope for this tender ~2,115 kerbside tonnes annually

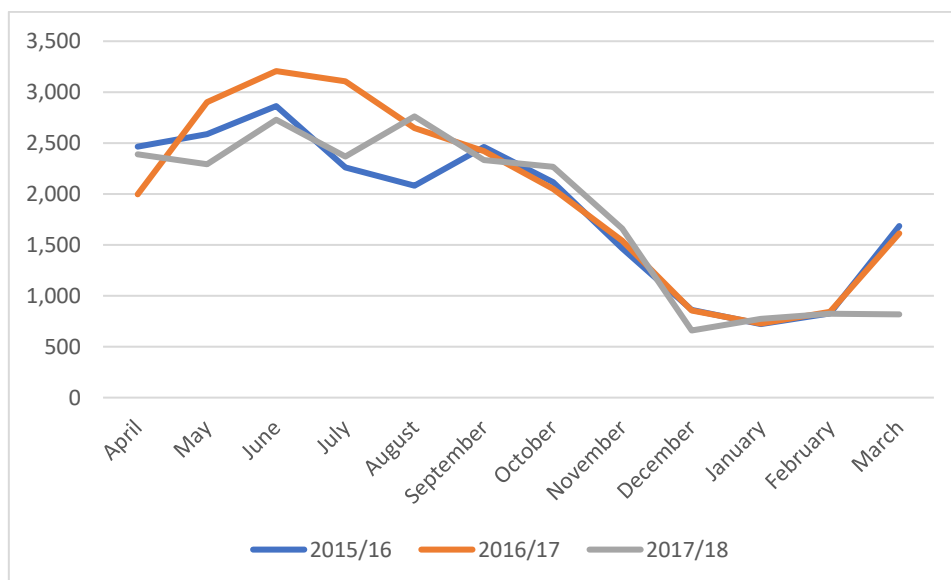


Figure 3. DWP HRC green waste arisings - NB includes Christchurch Tonnage which is not in scope for this tender ~4,200 tonnes annually

4.4 Wood Waste

This waste is derived from separately collected wood from HRC network within the Administrative Area, collected from bulky household waste collections and wood arising from fly tipped materials.

Wood separated at HRCs is subject to limited supervision and is not separated into different grades.

This waste consists of material with the following European Waste Catalogue Code:

Category of waste	EWC - European Waste Catalogue Code
Wood other than that mentioned in 20 01 37	20 01 38

4.4.1 Arisings 18/19

All 18/19 tonnage figures have Christchurch volumes removed

Wood Waste - Source Distribution 18/19 (tonnes)		
HRC/WTS	Current Delivery Method	18/19
Blandford	Roro	577
Bridport	Bulker	853
Dorchester	Roro	834
Portland	Bulker	809
Shaftesbury	Roro	694
Sherborne	Bulker	607
Swanage	Roro	459
Wareham	Roro	781
Weymouth	Roro	1,576
Wimborne	Roro	977
47%	Bulker	2,269
53%	RORO	5,899
Total Wood		8,168

4.4.2 Historic Arisings

The following figure is used solely to illustrate the annual fluctuations in arisings.

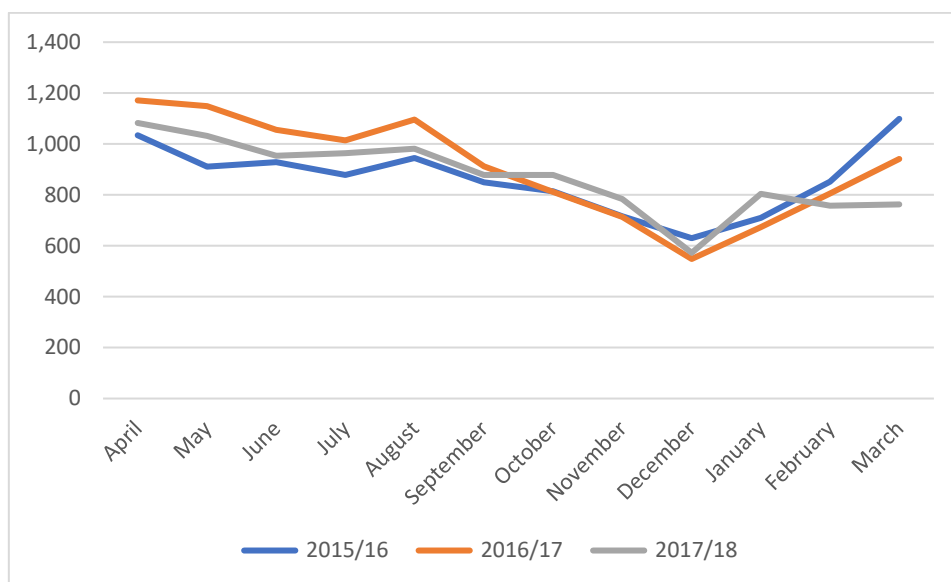


Figure 4. DWP HRC wood waste arisings - NB includes Christchurch Tonnage which is not in scope for this tender ~2,823 tonnes annually

4.5 Food Waste

This waste is derived from food waste collected from weekly household food waste collections within the Administrative Area, including food waste from commercial waste collections provided by the Authority. Provided by the Authority

This Waste consists of material having the following European Waste Catalogue Code:

Category of waste	EWC - European Waste Catalogue Code
Biodegradable kitchen and canteen waste	20 01 08

4.5.1 Arisings 18/19

All 18/19 tonnage figures have Christchurch volumes removed

Food Waste Distribution 18/19 (tonnes)	
Bulked Up - RORO/RCV	6,073
Blandford WTS	1,932
Sherborne WTS	732
Bridport WTS	1,117
Hurn TS - compactor skip	2,291*
Third Party TS - compactor skip	
*Move away from single pass RCV to dedicated food waste vehicle expected mid 2020 - compactor skips will be removed	
Direct Delivery small RCV	8,897
Weymouth Depot	3,071
Poundbury Depot	2,549
Wareham Depot	1,774
Ferndown Depot	1,504

Total
14,970

4.5.2 Historic Arisings

The following figure is used solely to illustrates the annual fluctuations in arisings.

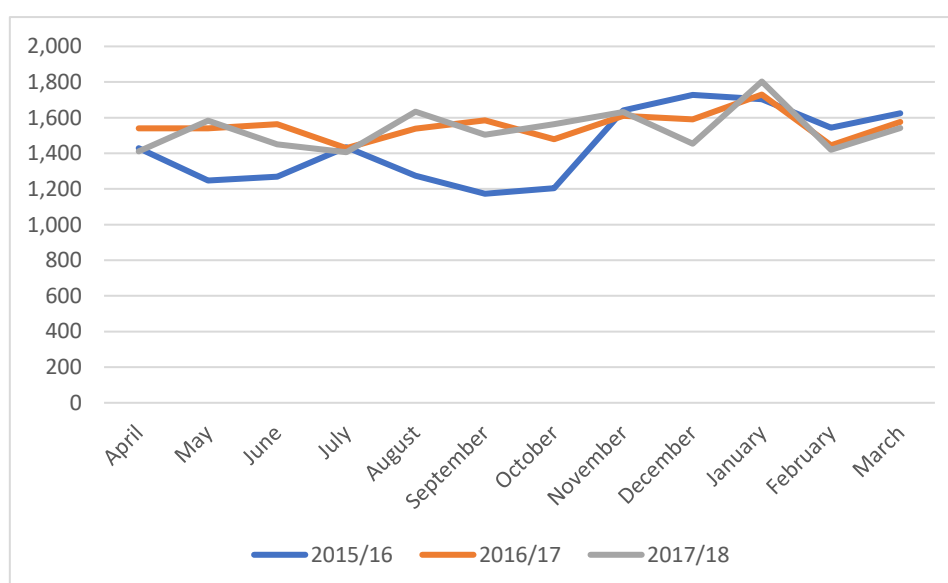


Figure 5. DWP kerbside food waste arisings - NB includes Christchurch Tonnage which is not in scope for this tender ~1,500 tonnes annually

4.6 Street Sweepings

This Waste is derived from the Authority's mechanical and manual street sweeping activity carried out within the Administrative Area.

This Waste consists of material having the following European Waste Catalogue Code:

Category of waste	EW C - European Waste Catalogue Code
Street Cleaning Residues	20 03 03

4.6.1 Arisings 18/19

All 18/19 tonnage figures have Christchurch volumes removed

Sweepings Distribution 18/19 (tonnes)	
Street Sweepings Total MRS/ RORO	3,495
Weymouth Depot MRS	1,510
Poundbury Depot -RORO	
Shaftesbury Deopt MRS	711
Ferndown Depot - MRS	1,088
Wareham Depot -MRS	185
<i>MRS= Mechanical Road Sweeper</i>	

4.6.2 Historic Arisings

The following figure is used solely to illustrates the annual fluctuations in arisings.

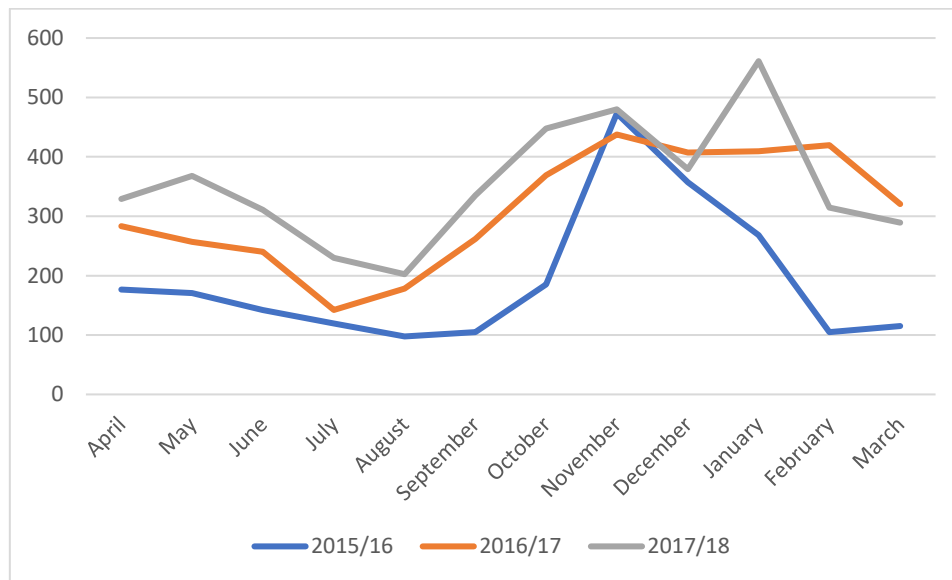


Figure 6. DWP street sweepings arisings - NB includes Christchurch Tonnage which is not in scope for this tender ~663 tonnes annually

5. Transfer stations

The DWP operates a variety of waste transfer infrastructure from small scale facilities which have evolved over time, to purpose built facilities designed with scope for future expansion.

The location of the WTSs and HRCs are illustrated on the image below. Please refer to Appendix 1 for full address information.



HRC = Household Waste Recycling Centre

WTS = Waste Transfer Station

5.1 Aerial views of WTS

5.1.1 Blandford WTS/HRC



5.1.2 Bridport WTS/HRC



5.1.3 Sherborne WTS/ HRC



5.1.4 Weymouth (Crookhill) WTS/ Depot



Appendix 1. DWP Facility Address Information

Site Name	Type	Operated By	Contractor	Description/ Materials Delivered	Address	Post Code	Planning - Operating Hours	Contracted Operating Hours	Bank Holiday Exceptions
Dorchester	HRC	Contractor	W&S	Small HRC	St Georges Road, Dorchester	DT1 1PE		0900-1800 Apr-Sept /1000-1600 Oct-Mar	
Portland	HRC	Contractor	W&S	Small HRC	Easton Lane, Portland	DT5 1BW		0900-1800 Apr-Sept /1000-1600 Oct-Mar	
Shaftesbury	HRC	Contractor	W&S	Small HRC	Wincombe Business Park, Warminster Road, Shaftesbury	SP7 9QJ		0900-1800 Apr-Sept /1000-1600 Oct-Mar	
Swanage	HRC	Contractor	W&S	Large HRC	Prospect Business Park, Victoria Avenue, Swanage	BH19 1EJ		0900-1800 Apr-Sept /1000-1600 Oct-Mar	
Wareham	HRC	Contractor	W&S	Medium HRC	Westminster Road Industrial Estate, Wareham	BH20 4SN		0900-1800 Apr-Sept /1000-1600 Oct-Mar	
Weymouth	HRC	Contractor	W&S	Large HRC	Preston Beach Road, Weymouth	DT3 4SX		0900-1800 Apr-Sept /1000-1600 Oct-Mar	
Wimborne	HRC	Contractor	W&S	Very Small HRC	Brook Road, Wimborne	BH21 2BH		0900-1800 Apr-Sept /1000-1600 Oct-Mar	
Blandford	HRC/WTS	Contractor	W&S	Small WTS receiving all products & HRC	Shaftesbury Lane, Blandford	DT11 7EG	Mon-Fri 0800-1900 Sat 0800-1300	Mon-Fri 0800-1700 Sat 0800-1300	0800-1600 on x3 Saturdays following Xmas Day
Bridport	HRC/WTS	Contractor	W&S	Large WTS receiving all products & HRC	Broomhills Farm Birdport	DT6 3PL	Mon-Sun 0700-1900	Mon-Fri 0800-1700 Sat 0800-1300	0800-1600 on x3 Saturdays following Xmas Day
Sherborne	HRC/WTS	Contractor	W&S	Small WTS receiving all products & HRC	West Mill Lane, Sherborne	DT9 6EE	Mon-Sun 0800-1900	Mon-Fri 0800-1700 Sat 0800-1300	0800-1600 on x3 Saturdays following Xmas Day
Crookhill	WTS /Depot	DWP		WTS residual waste only & collection depot	Chickerell, Weymouth	DT3 4DQ	Mon-Fri 0800-1700 Sat/Sun 0800-1200	In House Operation	
Blandford	Depot	DWP		Waste Collection Depot	Wimborne Road, Blandford Forum,	DT11 7AS			
Bridport	Depot	DWP		Waste Collection Depot	West Bay Road, West Bay, Bridport	DT6 4EH			
Ferndown	Depot	DWP		Waste Collection Depot	24 Haviland Road, Ferndown Industrial Estate, Wimborne	BH21 7RQ			
Longmead	Depot	DWP		Waste Collection Depot	Longmead Industrial Estate Shaftesbury	SP7 8PL			
Poundbury	Depot	DWP		Waste Collection Depot	Poundbury West Industrial Estate, Dorchester	DT1 2PG			
Wareham	Depot	DWP		Waste Collection Depot	8 Westminster Road Wareham	BH20 4SW			

Appendix 2. Residual Waste Compositional & Calorific Analysis - based on ~300 household representing the majority of the demographic range in the Dorset Council Area

Prime Categories	Sub-categories	% by weight*	Gross CVar (MJ/Kg)	Weighted CV (MJ)	Combustibility	% by CV	Biodegradability	Qualifying	Biodegradable Content	Combustible Content
Recycled Paper	Newspaper & magazines, Catalogues & Directories	1.31%	11.40	0.15	1	1.38%	1	1.38%	1.31%	1.31%
	All Envelopes, Junk Mail & Other recyclable paper	1.76%	11.22	0.20	1	1.83%	1	1.83%	1.76%	1.76%
	Shredded Paper	0.31%	11.22	0.04	1	0.33%	1	0.33%	0.31%	0.31%
Non-Recyclable Paper	Paper tissue	4.57%	8.51	0.39	1	3.60%	1	3.60%	4.57%	4.57%
	Other non-recyclable paper	1.13%	8.51	0.10	1	0.89%	1	0.89%	1.13%	1.13%
	Corrugated Cardboard	0.58%	14.05	0.08	1	0.75%	1	0.75%	0.58%	0.58%
Card & Cardboard	Thin Card	1.13%	10.33	0.12	1	1.08%	1	1.08%	1.13%	1.13%
	Tetrapak Cartons	0.52%	11.60	0.06	1	0.56%	1	0.56%	0.52%	0.52%
	Other non-recyclable card & Cardboard	0.80%	13.62	0.11	1	1.01%	1	1.01%	0.80%	0.80%
Plastic Film	All forms of plastic film	10.18%	20.57	2.09	1	19.40%	0	0.00%	0.00%	10.18%
Recyclable Dense Plastic	Plastic Bottles	0.98%	27.70	0.27	1	2.50%	0	0.00%	0.00%	0.98%
	Plastic pots, tubs & trays	2.70%	27.70	0.75	1	6.93%	0	0.00%	0.00%	2.70%
Non-Recyclable Dense Plastic	Polystyrene	0.26%	27.70	0.07	1	0.68%	0	0.00%	0.00%	0.26%
	All Other Dense Plastic	2.89%	27.70	0.80	1	7.42%	0	0.00%	0.00%	2.89%
Textiles	All Textiles & Shoes	6.83%	18.11	1.24	1	11.46%	0.5	5.73%	3.42%	6.83%
Msc Combustibles	Wood Waste	1.11%	16.61	0.18	1	1.71%	0.5	0.86%	0.56%	1.11%
	Disposable Nappies	11.19%	5.42	0.81	1	5.62%	0.5	2.81%	5.59%	11.19%
	All Other Combustibles	7.75%	16.92	1.31	1	12.14%	0.5	6.07%	3.87%	7.75%
Msc Non-Combustibles	DIY rubble & ceramics, Plasterboard	1.79%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
	All other inc Pet Litter non-organic	4.65%	3.15	0.15	0	0.00%	0.5	0.00%	2.32%	0.00%
Glass	Glass Bottles & Jars	1.72%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
	Other glass	0.57%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
Ferrous Metal	Food & Drinks cans	0.70%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
	Aerosols (ferrous)	0.15%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
	All Other ferrous	0.88%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
Non Ferrous Metal	Food & Drinks Cans	0.19%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
	Aerosols (non-ferrous)	0.10%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
	Aluminium foil & trays	0.75%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
	All Other non-ferrous	0.08%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
Garden Waste	Flora organics	2.58%	3.15	0.08	1	0.75%	1	0.75%	2.58%	2.58%
	Soil & turf	1.84%	0.00	0.00	1	0.00%	0	0.00%	0.00%	1.84%
Putrescibles	All Home Compostable Food Waste	8.27%	7.19	0.59	1	5.51%	1	5.51%	8.27%	8.27%
	Cooked Meat & Fish Waste	1.33%	7.19	0.10	1	0.89%	1	0.89%	1.33%	1.33%
	Uncooked Meat & Fish Waste	0.62%	7.19	0.04	1	0.41%	1	0.41%	0.62%	0.62%
	All other non-home compostable food waste; plate scrapings	8.48%	7.19	0.61	1	5.65%	1	5.65%	8.48%	8.48%
	Composite Mixed Food Waste	2.03%	7.19	0.15	1	1.35%	1	1.35%	2.03%	2.03%
	Herbivorous Pet Straw & Saw dust Bedding	2.29%	13.21	0.30	1	2.80%	1	2.80%	2.29%	2.29%
	Consumable Liquids	0.74%	8.67	0.06	1	0.60%	1	0.60%	0.74%	0.74%
	Fats & Oils	0.17%	8.67	0.01	1	0.14%	1	0.14%	0.17%	0.17%
Fines	Particles passing a 10mm screen	1.96%	6.93	0.14	1	1.26%	0.5	0.63%	0.98%	1.96%
HHW	Household Batteries	0.08%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
	Separately listed HHW	0.48%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
WEEE	Mobile Phones	0.00%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
	Separately listed WEEE	1.53%	0.00	0.00	0	0.00%	0	0.00%	0.00%	0.00%
Total		100.00%		10.80		98.64%		45.62%	55.38%	86.34%