Paper No. WRWA 23-05

WESTERN RIVERSIDE WASTE AUTHORITY

MEETING	9th February 2023
REPORT AUTHOR/DATE	General Manager *(Contact Mark Broxup - Tel. 020 8871 2788)* 26th January 2023
SUBJECT	A Report outlining progress with operations and other matters since the previous meeting of the Authority.
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STATUS	Open
BACKGROUND PAPERS	None

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EXECUTIVE SUMMARY

1. This paper brings Members up to date on operational and other matters, which, in themselves, do not warrant the production of a separate paper. The majority of these matters are for Members' information, but where approval is sought this is referred to in the report and summarised at the end. The specific matters covered in this report are:-

    a) Operations
    b) Performance Monitoring
    c) Food Waste Composition Survey
    d) Education Programme – 2022/23
    e) WRWA & Borough Communications
    f) HWRC User Satisfaction survey
    g) B&Q site
    h) POPS
    i) Avian Flu
    j) Single Use Plastics
    k) Constituent Council New Recycling Initiatives
    l) Progress on Governance Review
    m) Items costing between £5,000 and £30,000
    n) Comments of the Treasurer
    o) Recommendations

OPERATIONS

Smugglers Way

2. Disruption was caused by a fire in the MRF Infeed Conveyor Line 2 on Thursday, 24th November 2022. The fire alarm was activated at 1.53pm and the site was evacuated. Cory's internal team then proceeded to deal with the incident, calling the London Fire Brigade (LFB) to site to assist. The LFB attended and the whole site was declared safe at 3.45pm. The site was fully operational and available to accept waste at 5pm. The suspected cause of the fire was a battery.

3. All Borough vehicles were diverted to the Cringle Dock Transfer Station during the incident, with the HWRC remaining open throughout.

Cringle Dock

4. At approximately 1.50pm on Friday, 9th December 2022, a fire broke out in Bay 6 leading to the main bunker at the Cringle Dock Transfer Station. The site was evacuated and the LFB were called, arriving on site at 2pm. The fire was brought

under control by 2.05pm. The LFB continued to pump large volumes of water into Bays 7 and 8 to try and reduce both heat and smoke and the site was re-opened to accept Borough waste at 8pm.

5. During the time of the incident, all Borough crews using Cringle Dock were directed to deliver to the Smugglers Way Transfer Station, with the site remaining open until 8pm.

6. It has proved difficult to establish the cause of the fire, or to be certain of which vehicle delivered the load.

7. It should be noted that a new fire suppression system, to include water cannons, is scheduled to be installed at the Cringle Dock site in February 2023.

PERFORMANCE MONITORING

Introduction

8. Detailed tonnage tables are attached as Appendix A to this report. The modelling to forecast the outturn figures for 2022/23 compares performance on the first nine months of the year against the corresponding period in the previous financial year. The tables shown set out:

    a) the tonnages of each waste type (including co-mingled recycling contamination) delivered by each constituent council in the current financial year up to 31st December 2022, together with projected outturn tonnages, compared against those budgeted for and the previous financial year's outturn; and

    b) comparisons of the tonnages of each major waste type handled by each constituent council on an annual basis.

Points to Highlight

9. If the trend in the level of waste arisings from the first six months of 2022/23 continues throughout the remainder of the financial year, there would be a 4.32% reduction in waste from 2021/22 and a 5.77% reduction from budget. Reductions are forecast for three boroughs and at the Household Waste and Recycling Centre, but Kensington and Chelsea ("**KC**") is predicted to have an increase in total waste of around 2.49%.

10. The predictions for General Waste delivered by the constituent councils, when compared to 2021/22, are broadly following the same pattern as the total waste, with all boroughs showing decreases except for KC. However, except for KC, the tonnages of Co-Mingled Recyclables delivered by the constituent councils are also significantly down, with a decrease of over 17% predicted for Lambeth. Overall, the Authority has experienced a drop of over 10% in the tonnage of Co-mingled recyclables received. The overall rate of Co-mingled contamination is currently down almost 0.5 percentage points from last year, at 14.32% overall, with Hammersmith & Fulham recording the highest levels at 16.68% and KC the lowest at 12.52%.

11. Tonnages at the Household Waste and Recycling Centre are forecast to be down by around 9% compared to last year and 17% compared to budget. This may reflect the forecasted 23.7% drop in Green Waste received, as bringing garden waste is often the main reason why members of the public visit the HWRC.

FOOD WASTE COMPOSITION SURVEY

Introduction

12. As reported at the September 2022 committee meeting (Paper No. WRWA 22-22) a Food Waste Composition Survey took place in September 2022. The sampling regime involved the direct collection and compositional analysis of residual food waste from a target of 300 properties from six areas within the Hammersmith & Fulham Food Waste trial area.

13. The Survey Results report has been distributed to Technical Officers and the full report can be made available to Members, on request. The headline results are:

Food in residual bins

- On average 70% of households surveyed set out residual waste for collection.
- In terms of waste generation, presenting households were setting out an average of 5.19kg/hh/wk of residual waste.
- Food and drink wastes were seen to be a major component of the residual waste forming 18.8% of the total, equating to 0.97kg/hh/wk.
- Around 88% of the food and drink waste was deemed to be of a type that is acceptable for kerbside food waste collections. This amounted to 16.5%, or 0.86kg/hh/wk.
- Of the recyclable food waste present, 46% was due to fresh fruit, vegetable and salad waste. This formed 7.0%, or 0.37kg/hh/wk of the residual waste.

- Meat and fish formed 17% of the recyclable food in the residual bins, with bakery-based foods forming 13%.

Food Recycling

- Four of the six sample areas had food recycling bins present for assessment. Between 13% and 51% of households set out these bins.
- Levels of recycled food waste were between 0.30kg/hh/wk and 2.02kg/hh/wk.
- The total amount of recycled food waste estimated to be present in the residual and food recycling bins combined was between 1.20kg/hh/wk and 2.96kg/hh/wk.
- Across the samples the effectiveness of food recycling (capture rates) ranged between 25% and 72%.

EDUCATION PROGRAMME

Schools Programme

14. Over the past few years the Education Programme was heavily affected by the pandemic, with a move from daily School visits to the Smugglers Way site and visits into schools and the community, to largely online workshops and tours with schools and adult groups and a little outdoor engagement work with schools (offering in-person workshops in an outdoor environment i.e. school playgrounds or local parks) for some, if not all of the Academic Year.

15. However, since the start of the Autumn Term, demand for on-site visits from Schools has returned to its pre-pandemic levels, and they are being requested in preference to online, or in-school work.

16. It should be noted that the Education Team is currently working at 50% capacity, with two members of the team having resigned during the pandemic. Officers have delayed recruiting to those positions until demand for off-site work increases.

17. The table attached as Appendix B to this report details the on-site and in-schools talks and workshops that have either been carried out since September 2022, or are booked in to take place before the end of this Spring Term. Members will see that, with the exception of the last week of the Spring Term, there is engagement work taking place every day.

18. Members will also see that the engagement work has not been evenly distributed between Boroughs. Lambeth schools make up a significantly larger proportion of

engagement work in the Autumn Term, with Wandsworth having a significantly larger proportion of engagement work completed, or booked in, for the Spring Term. As in previous years, the Education Team will be seeking to even out distribution across all Boroughs throughout the year (i.e. the Programme was highlighted again to Hammersmith & Fulham and Kensington and Chelsea schools in early January 2023 and this will be repeated in the second half of the Spring Term, in order that work with Kensington and Chelsea and Hammersmith & Fulham school bookings increase in the Summer 2023 term.

Totals for 2022/23 Academic Year (to date)			
	No of Schools Worked with	**No. of on-site visits**	**No of In-school assemblies/workshops**
Hammersmith & Fulham	9	11	3
Kensington and Chelsea	11	10	3
Lambeth	20	30	5
Wandsworth	22	29	5
TOTALS	**62**	**80**	**16**

Adult Tours

19. The table in Appendix B also details the number of Adults tours that have been carried out since September 2022, or are planned to take place over the coming weeks. More details of the tours can be found on the WRWA website - https://wrwa.gov.uk/schools-adult-groups/online/.

20. Although the majority of the Education Team's work is spent working with schools, mainly primary schools, when capacity allows they undertake resident tours and tours for adult education establishments, local businesses with an interest in reducing their carbon footprint and Borough staff groups.

21. Although online adult tours were created as a response to the cessation of in-person tours during the pandemic, the Education Programme continue to offer them as a complement to their on-site and outreach work. The online tours allow the Authority's operations to be accessible to residents who would not otherwise be in a position to visit the site in person, whether due to distance or mobility.

WRWA COMMUNICATIONS PLAN 2023/24

22. For the reasons set out in paragraphs 24 to 26 below, it is recommended that the Authority agrees that officers focus their efforts on Rigid Plastics, Batteries and Textiles in Financial Year 2023/24, using social media only, and also continue to

focus attention on increasing Reuse and Recycling at the HWRC (through social media, signage and HWRC staff training).

23. Authority officers will be in contact with Borough Technical and Communications Officers as they may wish to highlight Rigid Plastics, Batteries and Textiles in their own communications work with residents, to amplify the messaging.

Rigid Plastics

24. Following completion of a successful trial, residents can now drop off Rigid Plastics at the Smugglers Way Household Waste and Recycling Centre for recycling. This means that any buckets, drums, bins and cans, laundry baskets, crates, storage boxes (flexible- non-shatterproof only), wheelie bins, pallets, garden furniture, plant pots and car bumpers that would previously been placed in a General Waste container at the Centre should now be placed in a separate Rigid Plastics container. Authority officers have updated our website and HWRC signage and are now keen to publicise this new material as widely as possible.

Batteries

25. Members will be aware of the hazards caused by residents disposing of household batteries in with their recycling or waste, often either causing fires in Borough waste collection vehicles or at the Authority's waste facilities. Authority officers have been using social media to highlight the dangers of failing to recycle batteries responsibly for some time and will be running another social media campaign, using artwork provided by TakeCharge.org.uk, in the coming weeks.

Textiles

26. There has been a significant increase in textile contamination of co-mingled recycling in recent years. Members will see from the table below that we are forecasting a further increase in 2022/23. The Authority, and therefore the Boroughs, have incurred a textile disposal cost of £134,000 in 2022/23 to date.

Financial Year	Tonnes of Textiles in MRF
2018/2019	264.87
2019/2020	549.08
2020/2021	727.90
2021/2022	1,287.83

2022/2023 (to date)	1,188.82

27. It is also proposed to keep in place a £20,000 budget for any campaigns that may be appropriate to the Government's plans to introduce new waste management legislation covering matters such as compulsory food and garden waste collections, a Deposit Return Scheme and Extended Producer Responsibility for packaging. This budget, if required, will be funded from the Recycling Reserve which as at 1st April 2022 has a balance of £250,000.

Work Stream	Annual Budget	New Waste Management Requirements Budget, if required	Total
Social Media advertising – using paid-for targeted posts (by location) on Facebook or Twitter. Nextdoor will also be used, but this will incur no cost	£5,000		
A design budget for all adverts, posts and website communications	£10,000		
A design and supply budget for communications relating to increasing Reuse and Recycling at the HWRC.	£10,000		
A budget for any new Waste Management requirements, if required for innovation, special projects or new engagement methods.		£20,000	
Total	£25,000	£20,000	£45,000

28. Members are requested to approve the proposed communications budget of £45,000 for Financial Year 2023/24, which remains at the same level compared to the Financial Year 2022/23 budget.

INTRODUCTION OF A DEPOSIT RETURN SCHEME

Policy Details

29. On 20th January 2023 the Government announced its response to the 2021 Consultation on a Deposit Return Scheme ("**DRS**") for England, Wales and Northern Ireland. Scotland is introducing its own DRS that is due to go live in August 2023. The Government expects that a DRS will create a cleaner, segregated waste stream for in-scope drinks containers and substantially reduce the littering of them.

30. The DRS will mean that purchasers of "In Scope" drinks cans and bottles will pay a deposit at the point of purchase which will be refundable on return of the empty

container, broadly to any retailer that sells drinks for off-site consumption (i.e. generally not pubs and restaurants). The responsibility for monitoring and enforcing certain retailer obligations will be placed with local authorities through Trading Standards.

31. In England, In-Scope includes bottles and cans from 50ml to 3 litres in size that are made of: Polyethylene terephthalate ("**PET**[1]"), steel and aluminium. It does not include glass, HDPE (the plastic that most bottled milk comes in), mixed material pouches (e.g. Tetrapak), cartons and cups.

32. Waste management is a devolved policy area and consequently the DRS scheme will not be implemented uniformly across the UK with Glass also being In-Scope in Scotland and Wales.

33. The Government's timetable is that the DRS will go live in October 2025, with Regulations (using powers in the Environment Act 2021) in force by the end of 2023 and a non-profit Deposit Management Organisation ("**DMO**"), to run the scheme, in place by summer 2024. Collection targets for the DMO will start at 70% in the first year, rising to 90% by the third year.

34. The Regulations will set a maximum deposit value, but not a minimum, and the values will be set by the DMO which will be able to set either a fixed rate or variable rate deposits (which could vary by drinks container size, format, or material type).

35. The Government has also decided that In-Scope containers will not be included in its Extended Producer Responsibility ("EPR") scheme, meaning that local authorities will not receive EPR payments for In-Scope materials that remain in their recycling or residual waste streams. It will be possible for local authorities to separate out in-scope items and return them through the DRS to claim the deposit (assuming they meet a yet to be specified quality threshold), but how practicable this might be for co-mingled recyclables processed through a MRF is unknown.

Potential Impact on the Authority

36. In its responses to the Government's consultations on DRS in July 2019 and June 2021 (Paper No.s WRWA 880 and WRWA 21-15 respectively) the Authority was generally supportive of the Government's DRS proposals as it might:

    - raise public awareness, particularly with non or occasional recyclers, of the need to recycle more and reduce litter; and

[1] 70% of soft drinks (carbonated drinks, still and dilutable drinks, fruit juices and bottled water), are now packaged in PET plastic bottles – the rest comes mainly in glass bottles, metal cans and cartons.

- succeed in generating real consumer behaviour change which may then help "nudge" positive public behaviour with respect to other waste materials.

37. Whilst the Authority was supportive of including materials under both a DRS and EPR, the advantage of DRS is that it offers the potential for the Authority and its constituent councils to save money without the need to recover expenditure as required under EPR. The Authority also wanted glass, mixed material pouches (e.g. Tetrapak), cartons and cups to be included in the DRS, believing that not being so could provide a perverse incentive to increase their use.

38. The Authority particularly wanted glass to be included in the DRS as, by weight, it represents around 26% of Co-Mingled recyclables and 7% of the residual waste stream and officers estimate that, at current values, removing 90% of this material from both waste streams might have generated savings for the Authority of over £2 million a year. As glass is included under EPR the Authority should, in theory, be compensated for these costs, but details of the Government's proposed EPR compensation methodology are as yet unknown.

39. Removing PET bottles and steel drinks cans ought to be broadly cost neutral to the Authority, assuming that 90% is removed equally from the residual waste and co-mingled recyclables streams, but if there is a disproportionately higher loss from the recycling scheme then the result could be a financial loss to the Authority.

40. Removing 90% of aluminium drinks cans would result in a net financial loss to the Authority, due to their relatively high value and the small amount currently found in the residual waste stream, unless the MRF could reclaim the deposit value on the 10% of material it retained. The current value of aluminium is around £1,000 per tonne, but based on a 300ml Coke can weighing 12g and a deposit value of £0.20 if aluminium cans could be baled and sent back to redeem the deposit they would be worth over £16,000 per tonne.

SMUGGLERS WAY USER SATISFACTION SURVEY

41. A Household Waste and Recycling Centre User Satisfaction Survey will commence on Monday, 30th January 2023, and will run until Sunday, 12th February 2023, or until 700 responses have been received, whichever is the latest (as in previous years).

42. The last Satisfaction Survey was undertaken in September 2021 and involved in-person interviews at the Centre. This survey will be an online survey, whereby residents who have visited the Centre will automatically receive an email inviting them to participate, two hours after their booking slot. Residents who book in to use the Centre by telephone, will also be invited to participate by telephone.

43. The questions residents will be asked will be largely the same as in previous years, to ensure comparisons can be made. Results will be provided to Members at its June 2023 Committee meeting

HOUSING DEVELOPMENT UNDER CONSTRUCTION ON SMUGGLERS WAY

44. Members will have noticed on their visit to the Authority's Administration Office in recent months that construction of the new housing development on Smugglers Way is progressing well, especially the blocks overlooking our Smugglers Way facility (see image below).



45. In anticipation of occupancy of the development in 2023, on 7th December 2022 Authority officers met with the Senior Asset Manager of Legal and General Investment Management (LGIM), who will have responsibility for the marketing and letting of the development.

46. The development will consist of 1,000 residential properties and 21 commercial units. The blocks will be occupied in four phases, from August 2023 to August 2024, with full occupancy, residential and commercial, expected by Christmas 2024. The

LGIM officer was not in a position to confirm when occupation of the two blocks overlooking the Smugglers Way Transfer Station would take place.

47. It was also confirmed that the Authority will have the opportunity to comment on LGIM's draft marketing documents to ensure they have the necessary references to our facility's hours of operation, noise readings, and potential visual and light nuisances.

48. It was agreed that both LGIM and Authority officers would find a follow up meeting in Spring 2023 useful and this will be arranged in due course.

49. Officers will be in a position to provide Members with a more detailed update at the June 2023 committee meeting.

PERSISTENT ORGANIC POLLUTANTS (POP'S) IN SOFT FURNISHINGS

Background

50. Persistent Organic Pollutants ("**POPs"**) are chemicals with toxic properties that remain in the environment for a very long time, accumulate in food chains and can harm human health and the environment. In August 2022, the Environment Agency (EA) wrote to all local authorities advising that all waste upholstered domestic seating containing POPs must be incinerated and must not be:

    - Landfilled
    - Mixed with other non-POP's waste during production, storage, collection or treatment
    - Reused or
    - Recycled

51. On 19th December 2022, the EA published detailed guidance in the form of Regulatory Position Statements (RPSs) covering the storage, segregation and shredding of soft furnishings for all organisations dealing with waste that contained POPs.

52. The EA confirm that the default position is:

    i) to assume that all waste upholstered domestic seating should be considered to contain POPs and must be incinerated, unless it can be demonstrated that they do not; and

ii) if POPs and non-POPs waste are collected together or mixed at any point in the collection, storage or transportation, the entire load should be treated as POPs waste.

53. From January to July 2023, the EA will be contacting local authorities in order to understand their activities and needs, and provide support where appropriate. On-site compliance checks by the Environment Agency will take place from August 2023 onwards, focussing on those sites where activities pose the greatest risk to the environment and human health (with a focus on targeted audits and inspections, a review of procedures and the tracking of waste movements).

Impact on Authority Operations

54. Authority officers have reviewed the Environment Agency's regulatory position statement, along with Cory (the site licence holder), and adjustments have been made to operations at the Smugglers Way and Cringle Dock Transfer Stations, HWRC and Rework project, to ensure compliance.

55. Authority officers discussed any changes necessary with Borough officers on Wednesday, 18th and Wednesday, 25th January 2023.

AVIAN FLU

56. Authority officers received a request from Wandsworth Council on 5th December 2022 to make arrangements for the receipt of dead birds. Currently, Cory do not hold an animal by-products (ABP) disposal licence which would be required to store the carcasses on site, but they have made arrangements for the disposal of this type of waste. Cory are in the process of applying for an ABP licence.

57. No other borough has made such a request.

SINGLE USE PLASTICS

58. On 14th January 2023 the Government announced that, from October 2023, a range of single-use plastics will be banned, including single-use plastic plates, trays, bowls, cutlery, balloon sticks, and certain types of polystyrene cups and food containers. From October, people won't be able to buy these products from any business – this includes retailers, takeaways, food vendors and the hospitality industry.

59. Plastic cutlery, for instance, was in the top 15 most littered items in the country by count in 2020 and this follows on from previous bans on plastic straws, stirrers and cotton buds.

60. This ban would apply to restaurants, cafés and takeaways, but not to packaging for takeaway food and drink from supermarkets and shops, which will be covered instead by Extended Producer Responsibility legislation, due to be enacted in 2024.

CONSTITUENT COUNCIL NEW RECYCLING INITIATIVES

61. At the meeting of the Authority on 22nd September 2010 (Paper No. WRWA 669A) Members instructed the Clerk to write to each of the constituent councils to inform them that, in future, should they wish to make arrangements themselves to recycle any significant tonnage of waste then, in accordance with Section 48 of the Environment Protection Act 1990, they must, as soon as reasonably practicable, notify the Authority in writing. The Authority will then approve or object to any such proposal at its next available meeting. The Clerk wrote to the constituent councils, as instructed, on 27th October 2010.

62. On 3rd January 2023, Wandsworth Council notified the Authority of its wish to expand the existing separate food waste collection trial. It is estimated that this further roll out will collect an additional 300 tonnes of food waste a year that will be treated by a process known as Anaerobic Digestion.

63. On 11th January 2023, Hammersmith & Fulham Council notified the Authority of its wish to begin the introduction of separate food waste collections borough-wide and it estimates that it will ultimately collect around 3,500 tonnes annually that will be treated by a process known as In-Vessel Composting.

64. The Authority's response to both these requests are discussed in Paper No. WRWA 23-07 elsewhere on this agenda.

PROGRESS ON GOVERNANCE REVIEW

65. The Deputy Chair, who is leading on the governance working group, has prepared and shared a draft set of protocols with members for consideration. The Deputy Clerk is currently arranging the dates for the Working Group which will be held virtually. There have also been discussions about bringing in some consultancy support to the Group. Members of the working group are as follows; Cllr Chowdhury (Chair), Cllrs Leonie Cooper, Sharon Holder and Will Pascall.

ITEMS COSTING BETWEEN £5,000 AND £30,000

66. There have been no reportable items of expenditure authorised by officers under delegated powers within the band range of £5,000 to £30,000 since the last Authority meeting.

COMMENTS OF THE TREASURER

67. The Treasurer advises that in relation to tonnage levels attached at Appendix A, as outlined in the Budget paper elsewhere on this agenda (Paper No. WRWA 23-01), constituent councils are always advised to make their own assumptions regarding tonnage levels when setting and monitoring their budgets. That paper also incorporates the budget for communications of £45,000 for 2023/24 as outlined in paragraph 28 above.

RECOMMENDATIONS

68. It is recommended that the Authority:

a) Agrees, as set out in paragraphs 22 to 26 above, that officers focus communication efforts on Rigid Plastics, Batteries and Textiles in 2023/24, using social media only, and continue to focus attention on increasing Reuse and Recycling at the HWRC (through social media, signage and HWRC staff training);

b) approves the proposed communications budget of £45,000 for 2023/24 as set out in the Table at paragraph 27 above; and

c) otherwise receives this report as information.

M. Broxup
GENERAL MANAGER

Western Riverside Administration Office
Smugglers Way
Wandsworth
SW18 1JS

26th January 2023

After 9 months of 2022/2023

General Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	57,772	56,021	55,590	55,435	40,252	52,465	- 2,969	-5.36%	56,074	- 3,609	-6.44%
KC	59,581	58,209	46,755	53,842	42,257	55,731	1,889	3.51%	53,537	2,194	4.10%
LA	89,226	86,536	88,694	87,517	65,520	85,880	- 1,636	-1.87%	88,125	- 2,245	-2.55%
WA	76,028	75,666	80,509	78,795	56,691	74,167	- 4,628	-5.87%	80,119	- 5,952	-7.43%
WRWA	9,713	8,865	9,504	7,939	5,446	6,963	- 976	-12.29%	8,517	- 1,554	-18.24%
Total	292,321	285,298	281,052	283,526	210,167	275,206	- 8,320	-2.93%	286,372	- 11,166	-3.90%
Change		- 7,023	- 4,247	2,475		- 8,320					
Percentage Change		-2.40%	-1.49%	0.88%		-2.93%					

Co-Mingled Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	11,146	11,703	12,573	12,030	8,422	11,028	- 1,001	-8.32%	12,394	- 1,366	-11.02%
KC	16,087	15,961	12,528	14,076	10,601	14,015	- 61	-0.43%	14,049	- 34	-0.24%
LA	19,858	19,543	22,317	20,728	13,092	17,168	- 3,559	-17.17%	21,588	- 4,420	-20.47%
WA	20,173	20,355	23,577	21,842	14,586	19,156	- 2,687	-12.30%	22,618	- 3,463	-15.31%
WRWA	601	538	373	407	275	334	- 74	-18.07%	529	- 195	-36.90%
Total	67,864	68,099	71,368	69,082	46,976	61,701	- 7,382	-10.69%	71,178	- 9,477	-13.31%
Change		235	3,269	- 2,286		- 7,382					
Percentage Change		0.35%	4.80%	-3.20%		-10.69%					

Co-Mingled Contamination (Percentage)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Change in Percentage Point
HF	15.19%	13.62%	13.93%	16.93%	16.68%	16.68%	-0.24%
KC	11.66%	10.64%	11.03%	11.48%	12.52%	12.52%	1.04%
LA	16.40%	14.31%	14.49%	16.59%	15.59%	15.59%	-1.00%
WA	14.14%	12.78%	13.49%	14.12%	13.38%	13.38%	-0.73%
WRWA	14.57%	12.84%	13.90%	14.84%	14.32%	14.32%	-0.51%

Co-Mingled Contamination (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2017/2018 Budget Percentage	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	1,693	1,594	1,752	2,036	1,405	1,840	- 196	-9.64%	16.1%	1,998	- 158	-7.93%
KC	1,875	1,699	1,382	1,616	1,328	1,755	139	8.62%	10.8%	1,521	235	15.42%
LA	3,257	2,796	3,233	3,439	2,041	2,676	- 763	-22.18%	16.3%	3,518	- 842	-23.93%
WA	2,852	2,602	3,181	3,084	1,952	2,564	- 520	-16.86%	14.2%	3,202	- 638	-19.93%
WRWA	88	69	52	60	39	48	- 13	-20.91%	14.4%	76	- 29	-37.46%
Total	9,764	8,760	9,600	10,235	6,765	8,883	- 1,352	-13.21%	14.5%	10,316	- 1,433	-13.89%
Change		- 1,005	840	635		- 1,352						
Percentage Change		-10.29%	9.59%	6.62%		-13.21%						

Green Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	121	83	98	78	1	155	77	98.44%	-	155	0.00%
KC	429	475	495	514	316	461	- 53	-10.33%	499	- 38	-7.53%
LA	546	733	608	574	628	953	379	66.03%	399	555	139.15%
WA	340	449	365	325	82	244	- 81	-25.01%	257	- 13	-5.05%
WRWA	3,190	3,171	3,099	2,647	1,708	2,020	- 627	-23.70%	2,822	- 802	-28.42%
Total	4,626	4,911	4,665	4,139	2,735	3,833	- 306	-7.39%	3,976	- 143	-3.60%
Change		285	- 245	- 527		- 306					
Percentage Change		6.16%	-5.00%	-11.29%		-7.39%					

Clinical Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	23	18	16	14	9	11	-2	-17.23%	14	-3	-20.63%
KC	2	1	1	1	1	1	0	10.39%	1	0	4.92%
LA	3	3	4	6	4	6	0	1.14%	6	-0	-1.55%
WA	64	66	65	75	54	73	-2	-2.43%	79	-6	-7.28%
WRWA	-	-	-	-	-	-	-	0.00%	-	-	0.00%
Total	92	88	87	96	68	92	-4	-4.15%	101	-9	-8.66%
Change		-3	-2	9		-4					
Percentage Change		-3.51%	-1.85%	10.48%		-4.15%					

Detritus Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	611	449	463	434	370	441	7	1.72%	502	-61	-12.14%
KC	623	1,021	806	707	543	672	-36	-5.06%	731	-60	-8.14%
LA	760	518	542	562	358	473	-89	-15.88%	519	-46	-8.92%
WA	2,992	2,841	2,861	2,613	2,020	2,588	-25	-0.98%	2,539	49	1.93%
WRWA	-	-	-	-	-	-	-	0.00%	-	-	0.00%
Total	4,986	4,829	4,672	4,316	3,291	4,173	-143	-3.31%	4,291	-118	-2.75%
Change		-157	-157	-356		-143					
Percentage Change		-3.15%	-3.24%	-7.61%		-3.31%					

Battery Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	1	1	0	0	1	1	0	16.67%	-	1	0.00%
KC	-	-	-	-	-	-	-	0.00%	-	-	0.00%
LA	-	-	-	-	-	-	-	0.00%	-	-	0.00%
WA	-	-	-	-	-	-	-	0.00%	-	-	0.00%
WRWA	15	24	32	26	19	28	2	7.47%	29	-1	-2.95%
Total	15	25	32	26	20	29	2	7.63%	29	-0	-1.01%
Change		10	7	-6		2					
Percentage Change		63.14%	28.69%	-17.56%		7.63%					

Electrical Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	9	20	10	13	7	9	-4	-27.67%	11	-2	-14.60%
KC	33	26	32	15	6	7	-8	-51.52%	15	-7	-49.29%
LA	122	113	106	70	51	52	-18	-26.06%	69	-17	-24.80%
WA	3	2	4	1	1	1	-0	-22.42%	1	-0	-28.15%
WRWA	751	726	792	673	433	565	-108	-16.02%	715	-150	-21.00%
Total	917	888	944	772	497	634	-138	-17.84%	811	-176	-21.76%
Change		-29	56	-172		-138					
Percentage Change		-3.19%	6.36%	-18.25%		-17.84%					

Fridge Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	91	89	81	88	59	75	-13	-14.92%	89	-14	-15.81%
KC	64	51	39	45	33	39	-6	-13.33%	48	-9	-19.44%
LA	179	174	172	151	85	104	-47	-31.10%	151	-47	-31.01%
WA	96	153	75	59	47	60	1	0.98%	59	1	0.94%
WRWA	78	79	74	56	39	51	-5	-8.80%	56	-5	-8.80%
Total	507	546	440	400	264	329	-71	-17.65%	404	-75	-18.50%
Change		39	-105	-40		-71					
Percentage Change		7.60%	-19.30%	-9.19%		-17.65%					

Gas Bottle Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	1	1	1	1	1	1	- 1	-54.53%	3	- 2	-75.48%
KC	1	1	1	2	2	5	3	137.80%	1	4	379.03%
LA	3	4	1	2	2	2	0	28.11%	3	- 1	-21.30%
WA	1	1	1	1	0	0	- 0	-47.97%	1	- 1	-66.99%
WRWA	15	-	16	24	21	30	6	24.18%	11	19	172.61%
Total	21	6	20	30	25	38	8	26.74%	18	20	107.50%
Change		- 15	14	10		8					
Percentage Change		-70.03%	218.55%	48.08%		26.74%					

Carpet Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	-	-	-	-	-	-	-	0.00%	-	-	0.00%
KC	-	-	-	-	-	-	-	0.00%	-	-	0.00%
LA	-	-	-	-	-	-	-	0.00%	-	-	0.00%
WA	-	-	-	-	-	-	-	0.00%	-	-	0.00%
WRWA	269	375	365	281	-	-	- 281	-100.00%	396	- 396	-100.00%
Total	269	375	365	281	-	-	- 281	-100.00%	396	- 396	-100.00%
Change		106	- 10	- 84		- 281					
Percentage Change		39.28%	-2.66%	-23.01%		-100.00%					

Inert Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	-	5	-	-	-	-	-	0.00%	-	-	0.00%
KC	-	-	2	-	-	-	-	0.00%	-	-	0.00%
LA	1	2	-	5	-	-	- 5	-100.00%	5	- 5	-100.00%
WA	0	15	4	-	-	-	-	0.00%	-	-	0.00%
WRWA	1,624	1,677	1,891	1,508	840	999	- 509	-33.74%	1,765	- 766	-43.38%
Total	1,625	1,700	1,897	1,513	840	999	- 514	-33.95%	1,770	- 770	-43.54%
Change		75	197	- 384		- 514					
Percentage Change		4.61%	11.58%	-20.25%		-33.95%					

Oil/Paint/Rigid Plastics Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	0	-	-	0	0	0	0	216.67%	-	0	0.00%
KC	-	-	0	-	-	-	-	0.00%	-	-	0.00%
LA	-	-	-	6	19	193	187	3209.33%	1	192	########
WA	-	-	-	-	-	-	-	0.00%	-	-	0.00%
WRWA	17	17	16	39	106	412	373	965.87%	16	395	2438.76%
Total	17	17	16	45	125	605	560	1256.87%	17	588	3500.18%
Change		0	- 1	28		560					
Percentage Change		2.73%	-5.31%	171.38%		1256.87%					

Paper/Cardboard Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	-	-	-	-	-	-	-	0.00%	-	-	0.00%
KC	-	-	-	-	-	-	-	0.00%	-	-	0.00%
LA	439	423	423	323	209	265	- 58	-17.99%	344	- 79	-22.92%
WA	-	-	2	-	-	-	-	0.00%	-	-	0.00%
WRWA	793	962	1,171	1,023	675	851	- 172	-16.85%	1,209	- 359	-29.66%
Total	1,232	1,385	1,595	1,346	883	1,116	- 231	-17.13%	1,553	- 437	-28.17%
Change		152	211	- 249		- 231					
Percentage Change		12.35%	15.21%	-15.61%		-17.13%					

Scrap Metal Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	4	19	10	16	14	19	3	20.18%	14	5	35.09%
KC	1	0	-	4	0	0	- 3	-92.27%	4	- 3	-92.27%
LA	112	114	62	61	44	52	- 9	-15.20%	72	- 20	-28.07%
WA	0	4	7	-	-	-	-	0.00%	-	-	0.00%
WRWA	721	666	699	684	440	551	- 133	-19.41%	789	- 238	-30.18%
Total	837	803	779	764	499	622	- 142	-18.58%	879	- 257	-29.20%
Change		- 34	- 25	- 15		- 142					
Percentage Change		-4.08%	-3.06%	-1.86%		-18.58%					

Textile Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	-	-	-	-	-	-	-	0.00%	-	-	0.00%
KC	-	-	-	-	-	-	-	0.00%	-	-	0.00%
LA	-	-	-	-	-	-	-	0.00%	-	-	0.00%
WA	-	-	-	-	-	-	-	0.00%	-	-	0.00%
WRWA	234	254	287	260	190	244	-16	-6.23%	287	-43	-15.03%
Total	234	254	287	260	190	244	-16	-6.23%	287	-43	-15.03%
Change		20	33	-27		-16					
Percentage Change		8.46%	13.12%	-9.31%		-6.23%					

Tyre Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	0	1	0	2	0	0	-2	-95.45%	2	-2	-94.47%
KC	-	-	0	-	-	-	-	0.00%	-	-	0.00%
LA	12	8	5	7	4	5	-2	-24.53%	8	-2	-27.93%
WA	1	1	1	1	1	1	1	150.95%	-	1	0.00%
WRWA	0	-	-	12	7	21	9	71.85%	-	21	0.00%
Total	13	9	7	22	12	28	6	26.34%	9	19	200.91%
Change		-5	-2	15		6					
Percentage Change		-34.03%	-18.55%	206.94%		26.34%					

Wood Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	-	-	-	-	-	-	-	0.00%	-	-	0.00%
KC	1	1	-	-	-	-	-	0.00%	-	-	0.00%
LA	251	140	-	58	188	451	392	672.49%	-	247	0.00%
WA	-	-	-	-	-	-	-	0.00%	-	-	0.00%
WRWA	3,474	3,773	3,808	3,298	2,331	3,011	-287	-8.70%	3,597	-586	-16.29%
Total	3,726	3,913	3,808	3,356	2,519	3,461	105	3.14%	3,597	-135	-3.76%
Change		187	-104	-452		105					
Percentage Change		5.02%	-2.67%	-11.88%		3.14%					

Total Waste Delivered (Tonnes)

	2018/2019	2019/2020	2020/2021	2021/2022	TO DATE 2022/2023	FORECAST 2022/2023	Annual Change Tonnes	Annual Change Percent	2022/2023 Budget Tonnes	Budget Change Tonnes	Budget Change Percent
HF	69,779	68,410	68,843	68,112	49,138	64,207	-3,905	-5.73%	69,104	-4,897	-7.09%
KC	76,822	75,746	60,660	69,206	53,759	70,931	1,725	2.49%	68,884	2,046	2.97%
LA	111,510	108,311	112,934	110,069	80,204	105,400	-4,669	-4.24%	111,288	-5,888	-5.29%
WA	99,698	99,551	107,470	103,711	73,481	96,289	-7,422	-7.16%	105,672	-9,383	-8.88%
WRWA	21,494	21,128	22,129	18,877	12,530	17,168	-1,709	-9.05%	20,737	-3,569	-17.21%
Total	379,303	373,146	372,036	369,975	269,110	353,995	-15,980	-4.32%	375,686	-21,692	-5.77%
Change		-6,157	-1,110	-2,061		-15,980					
Percentage Change		-1.62%	-0.30%	-0.55%		-4.32%					

Education Programme 2022/23

Borough	School		Visit to Smugglers	Off-site work /Outreach
AUTUMN TERM			**40**	**8**
Lambeth	Julians Primary	20 & 26/09/2022	2	
Lambeth	IQRA Primary	21 & 22 & 23 & 29/09/2022	4	1
Lambeth	Octavia House School	27 & 28/09/2022	2	
Wandsworth	Holy Ghost	30/09/2022	1	
Wandsworth	Goldfinch	30/09/2022		2
Lambeth	Julians Primary	03 & 04 & 05/10/2022	3	
Wandsworth	L'Ecole des Petits	07 & 10 & 14/10/2022	3	
RBKC	Chelsea College of the Arts (staff)	11/10/2022	1	
LBHF	Ecole Française de Londres Jacques Prévert	12 & 13/10/2022	2	
LBHF	Avonmore	17/10/2022	1	
LBHF	Beavers	17/10/2022	1	
Lambeth	St. Saviors	18/10/2022		1
	Half Term			
Wandsworth	Shatesbury Primary	02/11/2022		1
RBKC	Abingdon House School	03/11/2022	1	
Lambeth	St John the Divine	04/11/2022	1	
Lambeth	St Stephen’s CoE Primary School	08/11/2022	1	

Lambeth	Woodmansterne Primary	10, 14, 15 & 16/11/2022	4	
Wandsworth	Finton House	17 &24/11/2022	2	
Wandsworth	Ark John Archer	21/11/2022	1	
Lambeth	White House	22/11/2022	1	
Wandsworth	Dolphin School	23/11/2022	1	
RBKC	Lycee Francais - S Ken site	25/11/2022		2
Lambeth	Van Gogh	28/11/2022	2	
Wandsworth	St Faiths	28 & 30/11/2022		1
RBKC	Red Cliff	01/12/2022	1	
Lambeth	Tram House School	02 & 9/12/2022	2	
RBKC	St Josephs	05/12/2022	1	
Lambeth	St Andrews	06/12/2022	1	
Lambeth	Ashmole Primary	08/12/2022	1	
SPRING TERM			**40**	**8**
RBKC	LAPEF	06/01/2023	1	
Wandsworth	Gatton	10 & 18/01/2023 plus 08/02/2023	3	
Wandsworth	Alton Primary	12/01/2023		1
Lambeth	Octavia	12/01/2023	1	
Wandsworth	Tomas, Clapham	16/17/19 & 20/01/2023	4	
Wandsworth	Hurlingham	23 & 26/01/2023	2	
Lambeth	Oasis Johanna	24/01/2023	1	
LBHF	Woodlane School	25/01/2023	1	
Wansworth	John Burns Primary	27/01/2023	1	
Wandsworth	Allfarthing	30/01/2023 & 01/02/2023	2	
Wandsworth	Eaton House	31/01/2022	1	

Wandsworth	Newton Prep	02/02/2023	1	
RBKC	Ken Prep	06 & 07/02/2023	2	
Lambeth	Larkhall	09/02/2023		2
Wandsworth	Wix School	09/02/2023	1	
Wandsworth	Belleville	10/02/2022	1	

Half Term

Wandsworth	West Hill	20/02/2023	1	
Wandsworth	Falcon	23/02/2023	1	
RBKC	Southbank International	27/02/2023	1	
H&F	West London Free School	28/02/2023 & 1 & 2/03/2023	3	
H&F	Normancroft	03/03/2023	1	
Lambeth	St. Stephen's	07 & 21/02/2023	2	
RBKC	Kensington Primary School	08/02/2023	1	
H&F	Bute House	10/03/2023	1	
Wandsworth	Broomhall	13 & 15/03/2023	2	
Wandsworth	Paddock	14/03/2023	1	
RBKC	Norland Place	16/03/2023		1
Lambeth	Granton	17/03/2023		1
H&F	Kensington Wade	20/03/2023		3
Lambeth	St. Stephens	21/03/2023	1	
H&F	Addison	22/03/2023	1	
Lambeth	Sunnyhill	23/03/2023	1	
RBKC	Lycee Francias, Charles de Gaulle	28/03/2023	1	

Borough	Adults/residents		Visit to Smugglers	Off-site work/Outreach
AUTUMN TERM			15	3
RBKC	Royal Academy Engineers	06/09/2022	1	
Lambeth	Environmental Services, council workers	08/09/2022	1	
All	Mixed Residents Tour	09/09/2022	2	
All	Mixed Residents Tour	12/09/2022	2	
H&F	TVC Residential Development	22/09/2022		1
RBKC	Chelsea College of the Arts (staff)	11/10/2022	1	
Wandsworth	Katherine Low Settlement ESOL	19 & 20/10/2022	2	
All	Rendal & Ritner staff tour	21/10/2022	1	
All	Mixed Residents Tour	01/11/2022	2	
All	Mixed Residents Tour	02/11/2022	2	
Lambeth	Lambeth Waste Education Team	11/11/2022	1	
Lambeth	High Trees	24/11/2022		1
Lambeth	Imperial	29/11/2022		1
SPRING TERM				
			8	0
All	Mixed Residents Tour	7, 9 & 11/01/2022	3	
Lambeth	Imperial	13/01/2023	1	

Lambeth	Imperial	22/02/2023	1
H&F	KLC School of Design	24/02/2023	1
All	Mixed Residents Tour	06/03/2023	1
H&F	H&F Staff Group	09/03/2023	1