Performance Ind	licator Template
Code	SB5.3 (NI 192)
Short title	Level of Household Recycling
	Longer Title: Percentage of household waste sent for reuse, recycling and composting
Rationale	 The indicator measures percentage of household waste arisings which have been sent by the Authority for reuse, recycling, composting or anaerobic digestion. This is a key measure of local authorities' progress in moving management of household waste up the waste hierarchy, consistent with the Government's national strategy for waste management. The waste hierarchy ranks waste management options according to what is best for the environment. It gives top priority to preventing waste in the first place. When waste is created, it gives priority to preparing it for re-use, then recycling, then recovery, and last of all dis-
	posal (e.g. landfill) The Government expects local authorities to maximise the percentage of waste reused, re- cycled and composted. This indicator monitors an authority's performance in reducing the amount of waste that is sent to landfill, incineration or energy recovery.
	The Waste Management Strategy sets the future direction for waste, recycling and cleansing services, in order to deliver environmental improvements across the whole borough.
	Access the Waste Management Strategy online
РІ Туре	Strategic
New Indicator	No

Settings				
Collection Settings	 Quarters Calculation - None. Quarterly data is audited by wastedataflow in arrears. Target Source - None Years Calculation - sum quarterly activated data Target Source - Quarters 			
Trend	Trend Calculation Type: Year to Year Trend (compare the same period in previous years to calculate trend) because the amount of waste collected per household may be seasonal.			
Reporting Period	Financial Year			
Data source	 Monthly data from Cory Environmental Services and Bywaters, the contracted waste disposal and material recovery facility providers. Quality assured in-house by the Environmental Services Technical Officer. Uploaded onto Wastedataflow on a quarterly basis and officially verified by Wastedataflow. 			
Gauge Format Type	Aim to Maximise - high values are better than low values			

Data type	Percentage With numerator, denominator
Year introduced	2009
Format	Two decimal places

Guidance / How	to Measure
Purpose	Contributes to Strategic Plan Outcome 5: <i>People live in a borough that is clean and green</i> . See rationale
Formula Guid-	Formula: (X/Y) * 100
ance	X = Tonnage of household waste collected by the authority (or on behalf of the au- thority) which is sent for reuse, recycling, composting or anaerobic digestion.
	Y = Total tonnage of household waste collected by the authority (or on behalf of the authority)
	The percentage of household waste arisings which have been sent by the authority for reuse, recycling, composting or anaerobic digestion.
	This was previously collected as BVPI 82a and 82b in 2007/08.
	<i>'Household waste'</i> means those types of waste which are to be treated as household waste for the purposes of Part II of the Environmental Protection Act 1990 by reason of the provisions of the Controlled Waste Regulations 1992. The amounts deemed to be collected shall include:
	 All waste collected by Waste Collection Authorities (WCAs) under Section 45(1) of the Environmental Protection Act 1990, <i>plus</i>
	 All waste arisings from Civic Amenity (CA) Sites established under Section 51(1)(b) of the Environmental Protection Act 1990, and
	• Waste collected by third parties for which collection or disposal reuse or recycling credits are paid under Section 52 of the Environmental Protection Act 1990.
	 For the avoidance of doubt 'Household waste' includes waste from the following sources: Waste collection rounds (including separate rounds for collection of recyclates) All waste listed under schedules 1 and 2 of the Controlled Waste Regulations. This
	 includes: Litter and refuse collected under section 89(1)(f) and waste arising from the discharge by a WCA/WDA of its duty under section 89(2) - this typically comprises street cleaning
	waste, park litter and gully sweepings - Bulky waste collections, where "bulky waste" is defined as
	 any article of waste which exceeds 25 kilograms in weight Any article of waste which does not fit, or cannot be fitted into:
	 (a) a receptacle for household waste provided in accordance with section 46 of the Environmental Protection Act 1990; or
	(b) where no such receptacle is provided, a cylindrical container 750 millimetres in diameter and 1 metre in length
	- Garden waste collections;
	 Household clinical waste collections. Hazardous household waste collections;
	 Re-used waste material from household sources as defined below;
	 Clearance of any waste put out in contravention to section 46 of the EPA 1990 (e.g. 'side waste')
	• Any other household waste collected by the authority Household waste does not include:
	 Beach cleansing wastes (i.e. produced by the specific activity of cleaning up a beach)

- Rubble (including soil associated with the rubble)
- Clearance of waste deposited in contravention to Section 33 of the EPA 1990 (fly-tipped waste)
- Vehicles (whether abandoned or not)
- Grass cuttings, leaves etc in parks
- Gully emptyings collected by the authority under the Highways Act
- Incinerator residues (even if the residues are not landfilled)
- Home composted waste
- Trade waste

<u>Tyres should</u> only be counted if they are 'household waste', i.e. they are collected from a house or Civic Amenity Sites or taken directly from the vehicle. If in doubt, they should not be included.

'Civic Amenity Site' means places provided by the WDA at which persons resident in the area may deposit their <u>'household waste'</u> (services provided under Section 51(1)(b) of the Environmental Protection Act or under the Refuse Disposal (Amenity) Act). Please note that materials collected at Civic Amenity Sites are only to be counted by <u>disposal authorities</u> except in the case of those London Boroughs and Metropolitan Districts which are not disposal authorities but which provide civic amenity sites under the Refuse Disposal (Amenity) Act.

Where an authority does not separate waste, they collect into household and commercial, figures must be based on a documented survey/study to ascertain the proportionate content of the waste. It is advisable to agree the sampling methodology with an external auditor in advance to ensure agreement on the adequacy of sampling.

Recycling' means the reprocessing in a production process of the waste materials for the original purpose, or for other purposes, but excluding energy recovery.

This <u>includes</u> material collected for recycling by waste collection authorities (e.g. from kerbside collection, bring sites or street recycling bins), waste disposal authorities (e.g. from civic amenity sites), and by third party private/voluntary collections sent for recycling on behalf of the WCA/WDA

It <u>excludes</u> material collected for recycling which is subsequently rejected to disposal whilst under the possession or control of the WCA/WDA. Rejects may occur at collection, during sorting (e.g. at a Material Recycling Facility) or at the gate of the reprocessor. All recycling rejects should be excluded from the numerator.

<u>Contamination Rates at MRFs:</u> Where a MRF is used by a number of authorities to calculate the amount of waste sent for recycling, authorities may use the plant's overall contamination rate if there is no more accurate information on the individual authority's waste stream.

Recycling can <u>include</u> material within the residual waste stream that is subsequently separated out and sent for recycling. For example, recyclate taken from residual waste sorted at transfer stations or Material Recycling Facilities (MRFs), recycling outputs from Mechanical Biological Treatment (MBT).

In order to be included in the numerator the waste must be delivered to, and accepted by, a company, individual or organisation which will reprocess waste that is in an acceptable form for inclusion in a recycling process. This includes waste that is exported for recycling (compliant with rules on the transfrontier shipment of waste).

Composting' means the controlled biological decomposition and stabilisation of organic substrates, under conditions that are permanently aerobic and that allow the development of thermophilic temperatures as a result of biologically produced heat. It results in a final product that has been sanitised and stabilised, is high in humic substances and can be used as a soil improver, as an ingredient in growing media, or blended to produce a top soil that will meet British Standard BS 3882, incorporating amendment No 1. In the case of vermicomposting these thermophilic temperatures can be foregone at the point the worms are introduced. Output from a Mechanical Biological Treatment facility which is sent for composting, as defined above, can also be included in the numerator.

'Anaerobic Digestion' means, the biological decomposition and stabilization of organic substrates in the absence of oxygen and under controlled conditions in order to produce biogas and a digestate. It results, either directly or after subsequent aerobic treatment, in a

Appendix 1		
	growing media or blended to incorporating amendment No included in this indicator. Only waste delivered to and community composting or an inclusion in a composting or the material delivered to the into the composting process treatment involves anaerobid based on the quantity enteri included. <i>'Reused items'</i> means items household waste element for treatment in a waste recover Items for reuse would come is in the possession of a WCA reuse that are separated from WCA/WDA and/or for which items from WCA/WDA bull Items disposed of at civic items received and passed Items received and passed Items received and passed items received and passed items received and passed any reuse that is not done on Where weighted tonnages of set of average weights should Where relevant waste is coll there is a delay due to the m the collection and recycling/ Any household waste (regard	d on by the WCA/WDA itself d on by third parties working on behalf of the WCA/WDA. n behalf of the WCA/WDA should be excluded. reused items are not available, the Furniture Reuse Network's
How to Measure	released to the public and pa of checks to ensure its accur by organisations external to checkpoints must be passed The levels which data moves	Approved byData Entry user - Local AuthorityData Entry user - Local AuthorityAdministrator user - Local AuthorityNational Level 1 user - WDFNational Level 2 user - Environment AgencyNational Level 3 user - DEFRA
		s), percentage of household waste sent for reuse, recycling,

Appendix I	
	composting or anaerobic digestion is calculated as: X/Y x 100, where:
	 X = Tonnage of household waste collected by the authority (or on behalf of the authority) which is sent for reuse, recycling, composting or anaerobic digestion. Y = Total tonnage of household waste collected by the authority (or on behalf of the authority)
Worked Example	<pre>(This example is applicable to all reporting organisations) Household waste collected directly for recycling = 30,000 tonnes Household waste rejected for recycling = 500 tonnes Household waste sent for reuse = 300 tonnes Household waste sent for composting = 8,000 tonnes Recyclate sorted from residual waste MRF = 2,200 tonnes Total household waste = 100,000 tonnes X = (30,000 - 500 + 300 + 8,000 + 2,200) = 40,000 tonnes Y = 100,000 tonnes X/Yx100 = (40,000 /100,000) × 100 NI 192 = 40.00% An example of the service's data collection spreadsheet is shown on page 10.</pre>
	Below there is an explanation on how the unverified household recycling rate is calculated (please see lines number of the spreadsheet sample on page 10.
	Household recycling rate (line 47) = (Total household recycled, composted & reused (line 41)/ Total household waste (line 42)) x 100
	 Total household recycled, composted & reused (line 41) = RCC recycled and reused (line 7) + MRF recycled (line 6) + Textile reuse and recycled (line 11) + Dirty MRF recycled (lines 16, 17, 18, 19) + Mechanical Sweepings recycled (line 20) + RCC composted (line 10) + Food and Garden waste composted (line 9)
	 Total household waste (line 42) = Total household recycled composted and reused (line 41) + Dirty MRF residual waste (lines 25, 26, 27, 28) + Street Sweepings residual waste (line 29) + RRC residual (line 30) + Household general waste collections (line 31) + MRF rejects (lines 32, 33) + Food & Garden rejects (lines 34) + Clinical waste (line 35) + Gulley waste (line 36).
	The methodology employed by WasteDataFlow to calculate the PIs can be downloaded from the WasteDataFlow website
What to look out for	Household waste is defined as waste from streets and parks and homes. There is no distinction, either in the collection method or the definition, of waste collected from people's homes and waste collected from the streets. Waste is everything put out - comprising of items that are for disposal (residual waste) and items that are for recycling.
	Monthly outturns are checked by the service and uploaded onto Wastedataflow on a quarter- ly basis, after which they are verified. There will therefore be a disparity between the sum

	of the monthly unaudited data and the audited quarterly outturn.
	The waste disposal and materials recovery facility services are currently contracted out. Changes to these contracts may impact on the way the measure is collected, collated, calcu- lated and reported and the frequency.
Other Guidance	See full government guidance note - WasteDataFlow:
	http://www.wastedataflow.org/htm/datasets.aspx
	http://www.wastedataflow.org/documents/guidancenotes/Specific/GN63_Question_100_Da ta_Entry_v2.0h.pdf
Scope / Data Source	Responsible Officer (Data owner and collator) = Richard Williams
	Data supplied by: 1. Elena Samitier, Environmental Services Technical Officer - Waste Management, Op- erational Services
	 Catherine Cooke, Environmental Improvement Team Leader, Operational Services Fiona Heyland, Environmental Services Improvement Manager, Operational Services Richard Williams, Business Manager Operational Services Bywaters
	6. Cory 7. Scope
Other notes	Is the measure cumulative? Yes

Data Quality	
PI Accuracy of Infor- mation	What governance checks are undertaken by services or third party to assure accuracy?The checks to assure accuracy of data: Composition analysis review undertaken in May 2018 by 'Resource Futures'. Composition analysis used to calculate percentage of recyclable materials into Cory / McGraths by type (eg. 5% paper, 2% glass etc). A review of the composition is likely to be undertaken on a bi-annual basis.
	External Procedure: Cory's / McGrath's: Loads weighed (weighbridge) to provide tonnage re- ceived. Composition analysis applied for calculation as described above and sent to LBTH Waste Team on a monthly basis. Bywaters: Loads weighed (weighbridge) to provide tonnage received. Assessment of percentage of load contaminated undertaken and evidence provided to LBTH on regular basis for scrutiny. Calculation to extract percentage of contaminated load from overall load weight undertaken. Data received from external contractors, as per the service level agreements and validated monthly.
	Internal Procedure: Quality checks undertaken by Environmental Services Technical Officer and Team (example: IT controls, spot checks on site (at Bywaters), sampling, reviewing unexpected data). Inbuilt controls and validation on WasteDataFlow upload.
PI Collec- tions Sys- tems and Procedure Notes	 On a monthly basis, the Environmental Services Technical Officer receives, through the contractor's online platform, management information in the form of an excel spreadsheet. Management information consists of the tonnes of waste collected by type. Data is quality assured by the Environmental Services Technical Officer (see PI accuracy of information). The composition analysis is undertaken by the contractors prior to making the data available. Information is entered onto an internal data collection spreadsheet (example screenshot

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	 page 10). The Performance Indicator (unverified) is calculated as explained in the formula guidance section This unverified monthly data is used by management for monitoring and contract management purposes On a quarterly basis, the sum of three months of data is submitted by the Data Entry User in to Wastedataflow (Elena Samitier). WDF will calculate N192 based on the information given. Once the data is validated by Wastedataflow (to Level 35), the Council will able to access the validation report with the N192 included via Wastedataflow portal. The table below shows the progression of data through WasteDataFlow for English Authorities. 							
			Quarter 1	Quarter 2	2 Quart	er3 Quar	rter 4	
			(Apr-Jun)	(Jul-Sep)	(Oct-I	Dec) (Jan-l	-Mar)	
		LA data submission deadline (lv30)	30th Sept	31st Dec	31st M	larch 30th J	June	
		Stage 1 validation (Lv35)	End Oct	End Jan	End Ap	oril End Ju	uly	
		Stage 2 validation	End Nov	End Feb	End M	ay End A	lug	
		Data received by Defra	End Dec	End March	n End Ju	ne End Se	ept	
		Publication of final results (annual figures Lv40)	Nov / Dec	Nov / Dec	Nov / I	Dec Nov /	/ Dec	
	NI192: Percentage HH waste sent for re reuse or composting Total HH Waste Colle Reuse, Recycling an	Q1 2020/21 cycling, 4,036.61 23,242.71	Q2 Q2 2020/21 4.364.10 21,875.67 19.9%	Q3 Q3 Q20/21		Annual Total 2020/21 8,400.70 tonr 45,118.38 tonr		
Third Party Information		waste data contracts data sharing. GDPR i						:on-

Ownership	
Portfolio Holder	Cabinet Member for Environment
Divisional Director	Divisional Director Public Realm
IP Lead	Vicky Allen
SP Lead	Andy Simpson
SP Lead (Deputy)	Abidah Kamali

Targets (see below	N)
Current target	Internal target, 2020-21 is 22%

Benchmarks	
Data Source	What is the source of the benchmark? Wastedataflow on a [quarterly/annual basis]

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Appendix 1	
Coverage	What are we benchmarking against i.e. national, England, London, specific benchmark group (specify who that includes)? England-wide data so any comparators can be chosen.
Availability	When is the benchmark data available? What frequency and what is the time lag if any?For example, does the benchmarking come at the same time as our outturn or is there a time lag (ie. a quarter in arrears)?One Quarter in arrears from Wastedataflow
Benchmark com- mentary	Is there any commentary relevant to the Benchmark that we should include in the com- mentary when we report, i.e., commentary that would aid understanding of the bench- mark? Officers should take account of characteristics of the borough when benchmarking against other LAs.

Appendix 1 An example of the service's data collection spreadsheet.

A	В	С	D	E	F	G	N	0	R
1 Household Waste									
2									
3 Recycling									
5									
5	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	-	Qrt2	Total
6 Bywaters- Co mingled recycled 7 RRC - Recycled and Reused	581.21	787.89	776.00	865.67	618.66	877.43	2145.10		9279.83
	6.76	17.84	60.58	46.47	46.53	59.77	85.18	152.77	493.58
	0.00	0.00 64.35	27.33 61.60	17.08 54.93	22.28 50.87	18.60 84.03	27.33 287.60	57.96 189.82	150.81 999.38
9 Envar- Food and Garden waste composted 0 RRC Composted	0.00	5.88	10.53	9.23	9.94	9.74	287.60	28.91	71.66
1 Textiles- reused/recycled	40.88	42.12	44.57	44.66	43.03	46.33	10.41	134.02	551.08
2	40.88	42.12	44.57	44.66	43.03	46.55	127.57	134.02	551.08
				i					
3 Residual Recycling									
4									
5	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	-	Qrt2	Total
6 McGrath- Bulky Recyled	40.07	47.59	101.54	107.87	101.77	124.24	189.20	333.89	1054.82
7 McGrath-Contaminated recycling recovered	0.00	0.00	9.63	34.33	19.64	8.30	9.63	62.27	159.27
8 McGrath - Street Cleansing recovered	116.42	135.60	143.21	107.41	115.09	112.48	395.23	334.98	1312.33
9 McGrath - URS residual waste recovered	135.85	154.15	159.00	160.39	140.03	152.43	449.00	452.86	1694.79
0 SweepTech- Mechanical Sweepings recovered	82.37	85.42	89.41	98.82	102.39	91.83	257.19	293.04	1305.65
1									
2 Residual				i					
3				1					
14	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Qrt1	Qrt2	Total
5 McGrath- Bulky	20.69	26.99	57.42	61.05	55.93	61.81	105.10	178.78	565.41
6 McGrath-Contaminated recycling	0.00	0.00	2.85	10.15	5.80	9.36	2.85	25.31	116.93
7 McGrath - Street Cleansing	117.44	137.14	144.75	107.93	116.47	112.06	399.33	336.45	1323.94
8 McGrath - URS residual waste	253.07	287.17	296.20	298.79	260.87	283.97	836.44	843.62	3190.93
9 SweepTech- Mechanical Sweepings	38.05	39.46	41.30	45.65	47.31	44.48	118.82	137.44	599.98
0 RRC -residual waste	0.00	23.14	93.85	107.97	115.90	100.72	116.99	324.59	947.10
1 Residual HH waste (Kerbside/Communal/ Schedule 2)	5608.62	5803.13	6180.67	5480.33	5387.96	5511.12	17592.42	16379.41	66976.95
2 Bywaters - Gate rejects	0.00	13.28	10.77	0.00	0.00	0.00	24.05	0.00	30.49
Bywaters - Through the MRF rejects	136.69	268.68	303.64	211.17	286.21	238.47	709.01	735.85	3155.28
4 Envar - F&G rejects	1.63	0.65	0.62	0.55	0.51	0.85	2.91	1.92	10.09
5 SRCL - Clinical Waste	3.64	2.07	2.01	0.00	1.24	0.67	7.72		18.14
6 Gully residual	13.64	9.36	10.60	30.18	15.96	31.28	33.60	77.42	311.90
17									
8 Summary Figures				1					
9				1					
0	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Qrt1	Qrt2	Total
1 Total Household recycled, composted and reused	1165.20	1334.96	1445.54	1520.55	1238.02	1556.85	3945.71	4315.42	16850.72
2 Total Household waste	7105.60	7658.86	8318.51	7582.45	7287.79	7676.90	23082.97	22547.14	90940.82
3				1					
4 Performance Indicators				1					
				I					
15				1					
	Apr-20	May-20	lun-20	Jul-20	Δμσ-20	Sen-20	Ort1	Ort2	Total
15 16 17 NI 192 Recycling Rate	Apr-20	May-20 17.43%	Jun-20 17.38%	Jul-20 20.05%	Aug-20 16.99%	Sep-20 20.28%	Qrt1 17.09%	Qrt2 19.14%	Total 18.53%