

THE HIGHLAND COUNCIL LOCAL AUTHORITY MUNICIPAL WASTE STATISTICS ANNUAL REPORT 2013/14



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Executive Summary / Geàrr-chunntas Gnìomhach

In the twelve months April 2013 to March 2014 total municipal waste arisings collected by Highland Council increased by 2.1%. This was the first rise in waste arisings since 2007/2008 and the largest increase since 2004/2005. Despite this increase, the 2013/2014 recycling/composting rate rose to 42.1% from 41.5% the previous year. **Figure 1** below shows the year on year changes in headline figures.

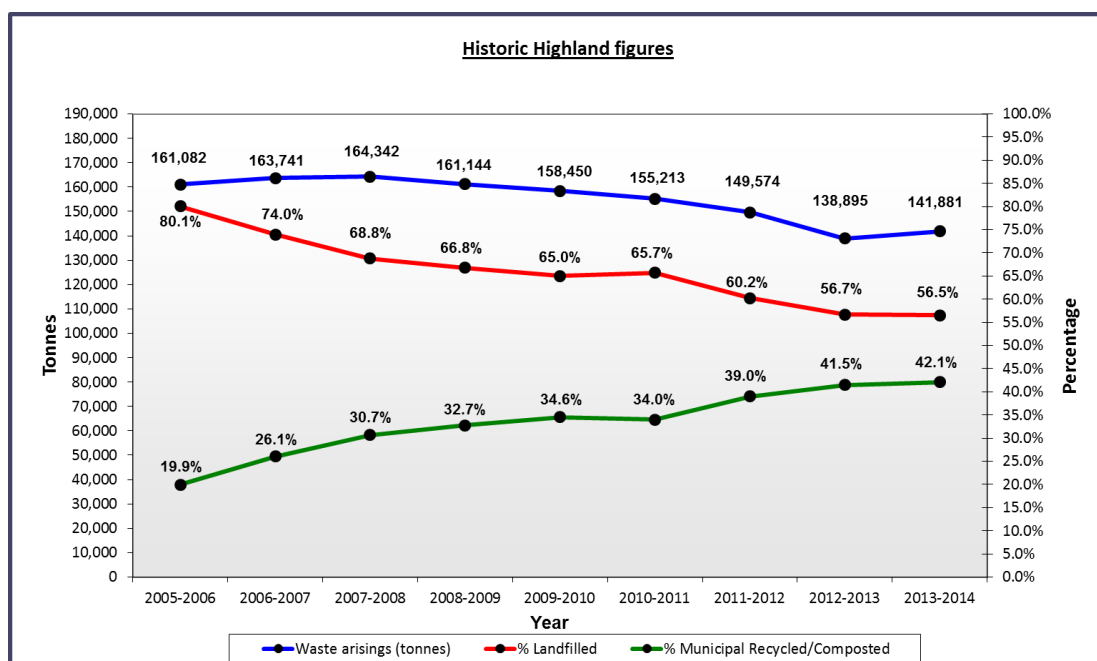


Figure 1 - Highland Council performance for Arisings, Landfill & Recycling

In terms of actual tonnage recycled, the Council as a whole recycled 59,771 tonnes of waste including 16,845 tonnes of composted material; 15,747 tonnes of comingled recyclate and 8,724 tonnes of soil and stones. There was a reasonable increase of 3.7% in total recycled/composted material between 2012/2013 and 2013/2014, although three quarters of this can be attributed to the increase in soil and stones (1,461 tonnes of the 2,140 tonnes total increase).

The Highland Council's six active social enterprise partners, contributed 2,690 tonnes to this total (1.9 percentage points), equating to a moderate decrease of 11.9% to the end of 2013/2014.

Final disposal arrangements for residual waste are provided through a combination of Council operated landfill sites (handling 25.2% of landfilled waste) and privately owned landfill sites (handling 74.8% of the waste). The Highland Council owns and operates two landfill sites, and in 2013/2014 sent waste to four private landfills (three of which are out with Highland).

The majority of recyclable materials collected by, or on behalf of the Council are sent to external reprocessors and merchants. Some materials such as

dry mixed recyclate (DMR) are initially delivered to Council premises for storage, but these are then bulked and hauled to a material recovery facility (MRF) where they are separated and prepared for sale to the end-user market. Similarly, the composting process for garden waste begins at The Council's closed landfill site at Longman in Inverness. Over 15,000 tonnes of garden waste was shredded and screened here in 2013/2014 before being hauled to farms in Nairnshire for the composting process to be completed in open windrows with the final product used as a soil conditioner and stabiliser.

Introduction / Ro-ràdh

This report details the Highland Council's waste data covering the period April 2011 to March 2013, although mainly 2012/2013 will be referenced. It provides useful reference material for anyone with an interest in waste management and waste statistics.

The Highland Council is governed by a number of policies and regulations relating to waste. The most recent developments are listed below.

The Zero Waste Plan sets the strategic direction for waste policy for Scotland, informed by improved understanding of the environmental consequences of how we use and dispose of resources, and by the requirements of European legislation.

The Waste (Scotland) Regulations were passed by the Scottish Parliament on 9 May 2012. They represent the most significant development in recycling that Scotland has ever seen and are designed to help realise the true value of resources we currently throw away.

The Zero Waste targets are incredibly challenging and will require many different approaches from local authorities and stakeholders alike. The regulations aim, by achieving a number of key milestones and increasing regulation, to reach a target of 70% recycling of all waste by 2025. This is hoped to be accomplished by a combination of law changes relating to businesses, increased availability of recycling services and an eventual ban on municipal biodegradable waste to landfill by 1st January 2021.

More information on Scotland's Zero Waste Plan and Waste (Scotland) Regulations can be found at the link below:

<http://www.zerowastescotland.org.uk/content/waste-scotland-regulations>

<http://www.zerowastescotland.org.uk/sites/files/zws/zero%20waste%20plan%2009062010%20document%2001.pdf>

In terms of the content of this report, it aims to provide an overall picture of Highland Council's performance in some key areas. The beginning of this report concentrates on performance against the Highland average, headline figures and sources of materials collected, culminating with destinations of waste and recyclables.

Benchmarking / Deuchainn-luathais

As a local authority, The Council is required to report its waste data to the Scottish Environmental Protection Agency (SEPA) on a quarterly basis via an online database called "WasteDataFlow". As a reporting mechanism, WasteDataFlow allows regulatory authorities such as SEPA, the Environment Agency (England & Wales) and the Environment & Heritage Service (Northern Ireland) to keep accurate information on progress towards UK and EU waste reduction targets.

From January 2012 onwards, SEPA required waste data to be reported by calendar year. They also required separate household waste figures as opposed to the previously reported municipal solid waste figures that included both household waste and commercial waste of a household nature.

As a result of these regulatory changes, SEPA no longer produce a summary of local authority performance by financial year which have previously tied in with The Council's internal reporting mechanisms. The change also means there are no nationally reported municipal waste statistics which The Council has previously measured itself on year on year. It is therefore not possible now to compare a number of indicators in any great depth in this report, but the following should hopefully give a summary of how Highland are doing against the Scotland average. The closest period of SEPA released statistics to coincide with 2013/2014 we can use are the calendar year 2013 stats below.

Table 1, which is sorted by household recycling rate, shows that Highland ranks 11th, an improvement from 14th on the previous year. A small increase of 0.7 percentage points to 45.0% has meant that Highland remain a comfortable 2.8 percentage points above the national average. Ultimately, the majority of refuse collected for example is co-collected; that is, both commercial and household wastes are collected in the same vehicle. Therefore an estimate needs to be used based on total commercial uplift volumes rather than a known weight. While this means that these numbers may not be statistically precise, every Council is in the same boat and uses a standard methodology to produce this data.

Table 2 has identical data to **Table 1** but shows Highland performance against the other authorities within its 'rural' family group. Highland has closed the gap on Perth & Kinross by a single percentage point but still remains 9 points behind. However, the Highland region is recycling a greater percentage of household waste than any of the remaining authorities in its family group. This is a great achievement considering the geographical challenges of the Highlands.

The website below links to an interactive tool made available by the Scottish Government describing in more detail household waste statistics for Scotland.

<http://www.environment.scotland.gov.uk/get-interactive/data/household-waste>

Household waste WasteDataFlow data 2013 CALENDAR YEAR

2012

Scotland RANK	Local Authority	HOUSEHOLD WASTE Generated (tonnes)	HOUSEHOLD WASTE Recycled / Composted (tonnes)	Percentage HOUSEHOLD WASTE Recycled / Composted	HOUSEHOLD WASTE Landfilled (tonnes)	Percentage HOUSEHOLD WASTE Landfilled (%)	Percentage HOUSEHOLD WASTE Recycled / Composted (%)
1	Clackmannanshire	26,797	16,044	59.9	9,018	33.7	58.9
2	East Renfrewshire	44,057	24,817	56.3	19,239	43.7	54.2
3	North Ayrshire	61,908	34,704	56.1	26,566	42.9	51.8
4	Fife	190,784	106,602	55.9	83,217	43.6	52.8
5	Inverclyde	29,183	16,184	55.5	12,968	44.4	50.7
6	Perth & Kinross	74,267	40,088	54.0	31,622	42.6	55.0
7	Stirling	39,923	21,448	53.7	16,052	40.2	55.7
8	Falkirk	71,950	38,162	53.0	31,834	44.2	55.2
9	Moray	47,533	24,424	51.4	23,110	48.6	51.9
10	East Ayrshire	58,282	28,456	48.8	28,567	49.0	44.4
11	Highland	125,651	56,584	45.0	66,169	52.7	44.3
12	East Dunbartonshire	51,997	23,363	44.9	25,340	48.7	38.7
13	South Ayrshire	55,423	24,574	44.3	27,048	48.8	47.5
14	West Lothian	70,592	31,290	44.3	38,539	54.6	43.0
15	Renfrewshire	78,417	34,742	44.3	40,500	51.6	38.9
16	West Dunbartonshire	36,206	15,933	44.0	20,027	55.3	44.1
17	Angus	54,258	23,416	43.2	25,265	46.6	40.1
18	Midlothian	40,177	17,012	42.3	23,165	57.7	45.3
19	East Lothian	49,335	20,879	42.3	28,456	57.7	44.8
20	North Lanarkshire	152,729	64,571	42.3	76,494	50.1	39.8
21	Scottish Borders	51,242	21,178	41.3	28,821	56.2	42.8
22	South Lanarkshire	144,734	56,529	39.1	88,205	60.9	37.4
23	Edinburgh, City of	184,360	70,189	38.1	114,172	61.9	36.7
24	Aberdeen City	94,117	34,956	37.1	59,051	62.7	37.3
25	Argyll & Bute	49,244	17,773	36.1	25,188	51.1	31.5
26	Aberdeenshire	131,811	47,220	35.8	84,421	64.0	35.6
27	Eilean Siar	12,738	4,281	33.6	8,457	66.4	29.7
28	Dundee City	61,485	19,111	31.1	26,795	43.6	29.7
29	Orkney Islands	9,923	3,053	30.8	2,700	27.2	22.5
30	Glasgow City	227,940	61,310	26.9	166,631	73.1	29.5
31	Dumfries & Galloway	75,501	18,082	23.9	30,923	41.0	22.2
32	Shetland Islands	10,141	1,235	12.2	2,269	22.4	13.5
	TOTAL SCOTLAND	2,412,706	1,018,208	42.2	1,290,829	53.5	41.2

Table 1 – Calendar Year 2013 comparison of household waste statistics

Household waste WasteDataFlow data 2013 CALENDAR YEAR

2012

Family Group RANK	Local Authority	HOUSEHOLD WASTE Generated (tonnes)	HOUSEHOLD WASTE Recycled / Composted (tonnes)	Percentage HOUSEHOLD WASTE Recycled / Composted	HOUSEHOLD WASTE Landfilled (tonnes)	Percentage HOUSEHOLD WASTE Landfilled (%)	Percentage HOUSEHOLD WASTE Recycled / Composted (%)
1	Perth & Kinross	74,267	40,088	54.0	31,622	42.6	55.0
2	Highland	125,651	56,584	45.0	66,169	52.7	44.3
3	Scottish Borders	51,242	21,178	41.3	28,821	56.2	42.8
4	Argyll & Bute	49,244	17,773	36.1	25,188	51.1	31.5
5	Aberdeenshire	131,811	47,220	35.8	84,421	64.0	35.6
6	Eilean Siar	12,738	4,281	33.6	8,457	66.4	29.7
7	Orkney Islands	9,923	3,053	30.8	2,700	27.2	22.5
8	Dumfries & Galloway	75,501	18,082	23.9	30,923	41.0	22.2
9	Shetland Islands	10,141	1,235	12.2	2,269	22.4	13.5
	TOTAL (FAMILY GROUP)	540,518	209,495	38.8	280,570	51.9	37.8

Table 2 - Calendar Year 2013 family group comparison

Community Re-use & Recycling / Ath-chleachdadh & Ath-chuirteachadh Coimhearsnachd

Highland Council now works in partnership with five local Community Groups; Acharacle Community Company, Blythswood Care, Homeaid Caithness, Lochaber Environmental Group (LEG) and New Start Highland.

In 2013/2014 the tonnage of material diverted from landfill by the Social Enterprise Sector was 2,690 tonnes (**Figure 2**), contributing 1.9 percentage points to Highland's recycling rate and 4.5% of the total tonnes of waste recycled/composted. This represented a tonnage decrease of 11.8% on 2012/13. The decrease was due in part to the ceasing of operations at GREAN in June 2012, in addition to a general reduction in tonnages achieved at most community groups.

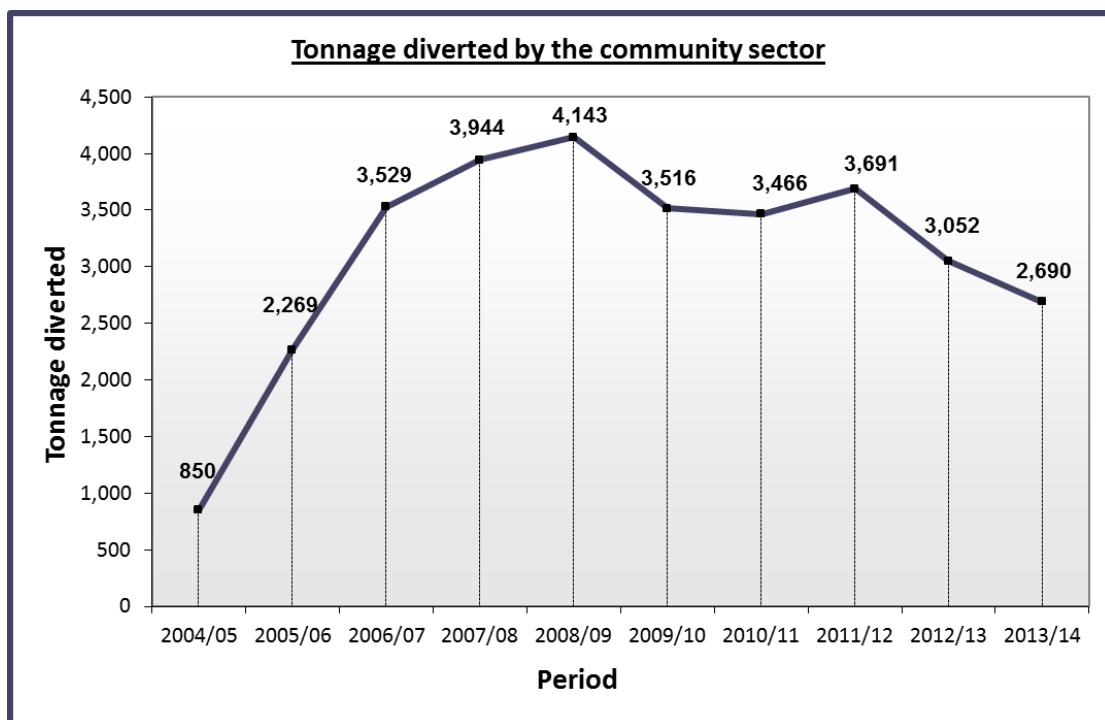


Figure 2 - Tonnage diverted by Social Enterprise Sector

Two out of the five funded community groups achieved their target tonnages (see **Table 3**). The overall tonnage diverted was well over the target set by the groups themselves however, but this was principally due to Blythswood and Homeaid being well over their annual targets. The type of material diverted from landfill by the Community Groups is predominantly furniture and textiles, although books and bric-a-brac also contribute a large fraction. The full breakdown is given in **Table 4**.

Community Group	Initial target 13-14	Target tonnes diverted 13-14	Additional tonnes	Total diverted 13-14	% target achieved 13-14	% target achieved 12-13
Acharacle	35	25	-	25	71%	83%
Blythswood	1,390	1,390	233	1,623	117%	128%
GREAN			6	6		34%
Home Aid	210	210	136	346	165%	170%
LEG	58	40	-	40	69%	78%
New Start	703	651	-	651	93%	78%
Sector Total	2,396	2,316	374	2,690	112%	96%

Table 3 - Tonnage diverted by Community Groups versus targets¹

Material	2011-2012	2012-2013	2013-2014
Bike tyres	1	1	-
Bikes/lawnmowers	32	13	6
Books	429	387	360
Bric-a-brac	481	524	487
Cans	6	1	-
Cardboard	83	25	-
Furniture	926	924	909
Garden waste	261	130	40
Glass	155	34	-
Paper	381	66	-
Plastic	59	20	-
Scrap metal	105	137	102
Textiles	679	700	679
WEEE - Cooling appliances	4	4	5
WEEE - Large domestic appliances	23	26	22
Wood	64	60	80
Total	3,691	3,052	2,690

Table 4 - Breakdown of materials diverted by Social Enterprise Sector

¹ Despite GREAN no longer being funded by The Council they did divert some bicycles from landfill at Tain, Brora and Dingwall recycling centres in 2013/2014.

Recycling/Composting / Ath-chuairteachadh/Dèanamh Todhar

The Council continues to try and increase the number of tonnes diverted to recycling and composting from its various sources. As already highlighted, in 2013/2014, The Council diverted 42.1% or 59,771 tonnes of its municipal waste from landfill. This represents an increase in tonnes to recycling of 3.7% between 2012/2013 and 2013/2014. The major sources of these materials can be seen in **Table 5 and Figure 3** below. From the pie chart it can be clearly seen that recycling centres and kerbside collection bring in the largest quantity of recycling in Highland. Household kerbside material counting towards The Council's recycling rate remained fairly static. However, overall collected recyclate did increase at the kerbside by 1.2% for DMR, but a recalculation of the house/commercial split shifted a proportion of this material into the commercial collection bracket. The addition of food waste collections in Inverness which contributed 1,031 tonnes, masked an overall decrease in kerbside garden waste collected of 8.1% (922 tonnes). The omission of some compost not meeting PAS100 certification also impacted on the total counting towards Highland's overall recycling rate.

The percentage contribution of recycled material between recycling centres and the kerbside closed again in 2013/2014 having widened the previous year. Recycling centre tonnage increased by 11.0% (2,307 tonnes), closing the gap between kerbside and recycling centres in terms of tonnage contribution. Bring site performance recovered from a decrease the previous year, increasing by 5.6% (298 tonnes) driven mainly by an increase in glass collections.

Recycling source	2011/2012	2012/2013	2013/2014
Household kerbside	25,218	25,692	25,522
Commercial collection	176	1,322	1,609
Recycling centres	22,937	21,038	23,345
Bring sites	6,221	5,301	5,599
Extracted from residual	512	936	521
Grounds maintenance	580	693	697
Other recovery	2,607	2,649.1	2,465.6
EfW recovered	128	15	13
TOTAL	58,379	57,646	59,771

Table 5 – Tonnes of recycling collected by source

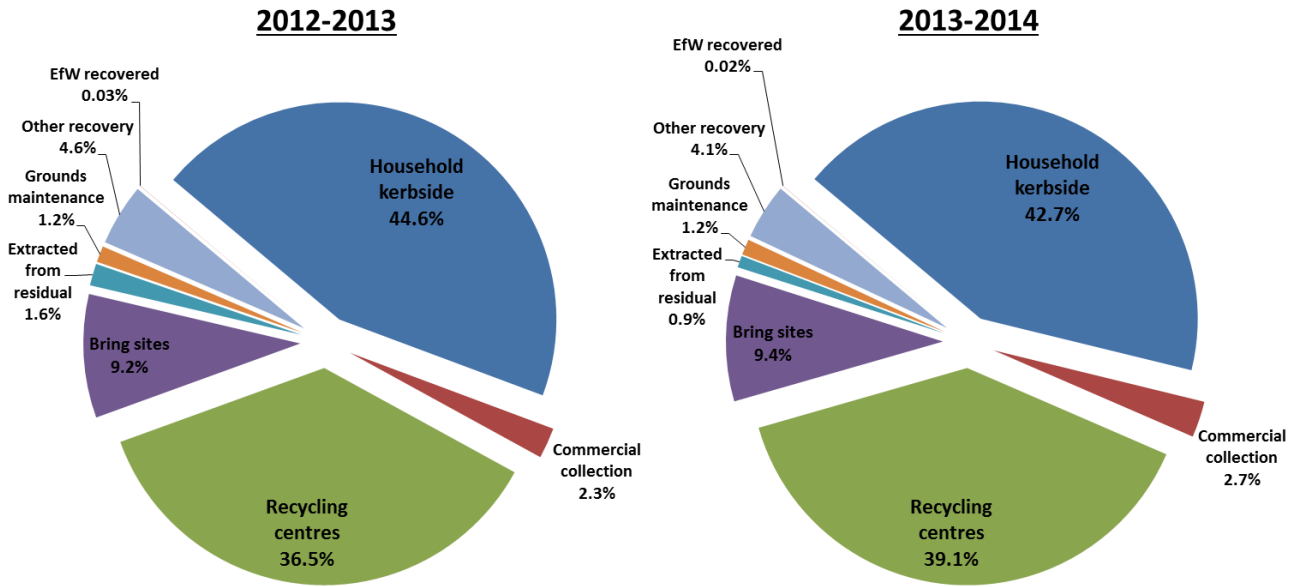


Figure 3 – Proportional recycling source split 2012-2013 & 2013-2014

Figure 4 below shows the increasing trend in recycling, diverting more waste from landfill and reducing carbon emissions. Although increases have been less prevalent since the introduction of AWC collections, any improvement year on year is a considerable achievement, particularly with budgets being so tight.

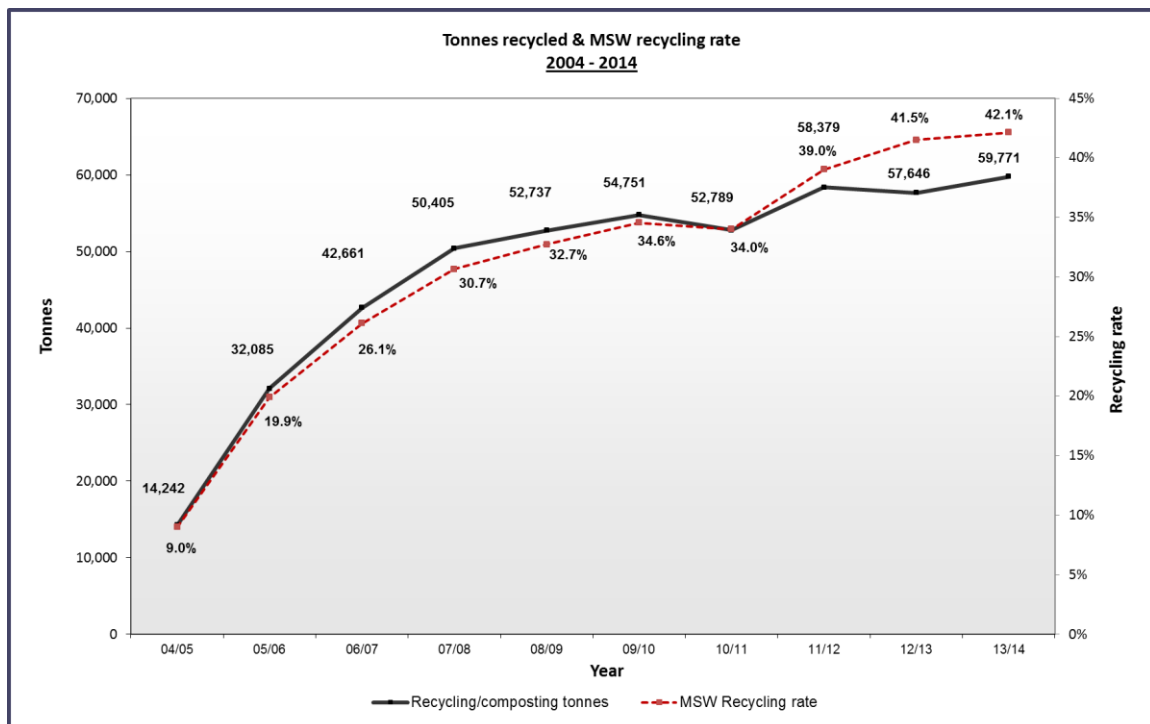


Figure 4 - Annual tonnages recycled

The percentage of total arisings composted has remained very flat over the past six years, despite a significant decrease in waste arisings. Conversely, the percentage of total arisings recycled has increased markedly, particularly since the roll out of AWC collections in 2011/2012. **Figure 5** below gives the details.

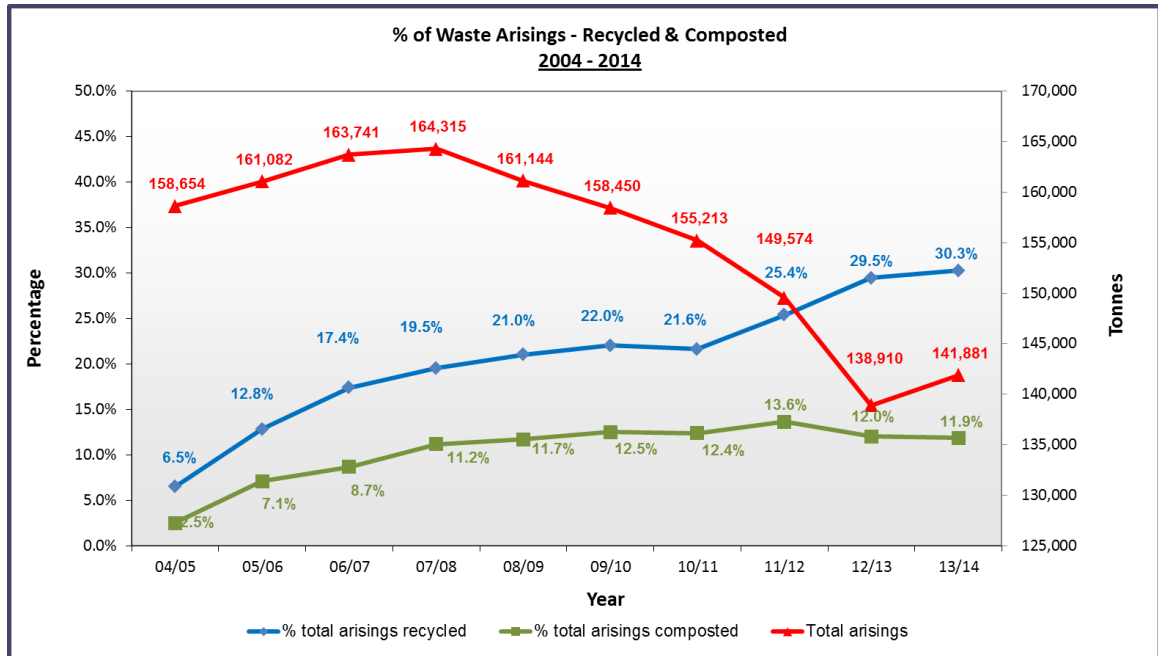


Figure 5 – Percentage of waste arisings composted and recycled

Kerbside Recycling / Ath-chuairteachadh Cabhsair

Since July 2012, The Council has offered a standard kerbside comingled service across the Highland region, with the exception of some islands and peninsulas such as Ardnamurchan and Knoydart. This comprises the collection of a blue wheeled bin for DMR material one week and a green (black in some areas) wheeled bin for residual waste to landfill the alternate week.

Around 60% of households in Highland are also served by a garden waste service collected in a brown bin every second week. In general this service is only available to households in larger urban areas of Highland. This material is sent for composting in open windrows at a collection of farms in Nairn-shire and used as soil conditioner.

In September 2013 The Council rolled out a weekly food waste service to approximately 28,000 households in the Inverness area including Smithton, Culloden, Westhill and Balloch. Zero Waste Scotland introduced the Waste (Scotland) Regulations 2012 which required all “local authorities to offer a food waste recycling service in non-rural areas from 1 January 2016”. In Highland, ‘non-rural’ resulted in a very limited zone of collection covering only Inverness and the immediate surrounding area.

This section will go into more detail on the performance of these services.

Garden waste service

The performance of The Council’s garden waste kerbside service is in many ways under the control of the climactic conditions through early Spring to late Autumn. If warm and wet, favourable growing conditions are not forthcoming until late Spring into early Summer, this can have a knock on effect on garden waste collected throughout the rest of the year.

As a cost saving exercise, The Council stopped kerbside garden waste collections in the Winter over the three month period Dec 13 – Feb 14. While a limited portion of garden waste would end up in the residual bin, it was believed that most would either not arise at all, be composted at home, or taken to local recycling centres.

Overall tonnage collected from the kerbside was 10,403 tonnes in 2013/2014 a decrease of 8.1% (922 tonnes) on the previous year. A significant proportion of this was due to the stop in collections over the Winter, with around 700-800 tonnes in previous years uplifted over that period.

Figure 6 (below) shows the seasonal variation over the last three years. June was the peak month of 2013/2014. A very slow start in April increased rapidly into May and June then gradually dropped off between July and November.

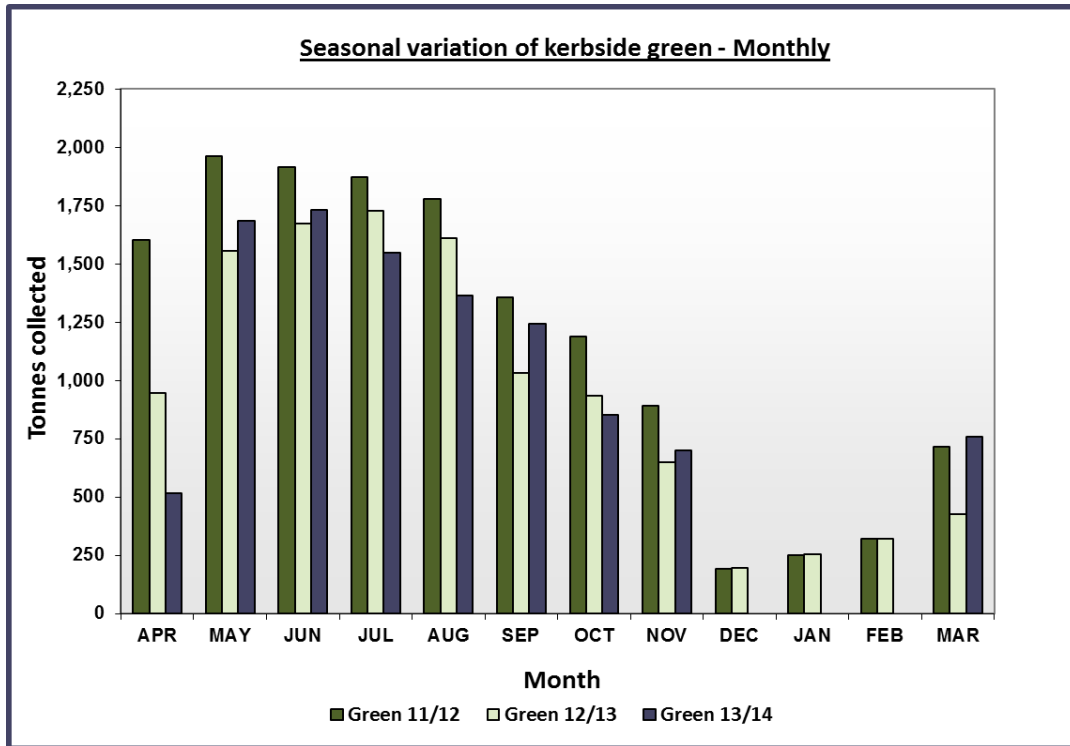


Figure 6 - Seasonal variation of kerbside green by month

The graph below (**Figure 7**) is a clear indication of how unbalanced the quantity of material The Council collects from Q1/Q2 and Q3/Q4 with Q4 now of course being particularly low with cessation of the kerbside service covering January and February.

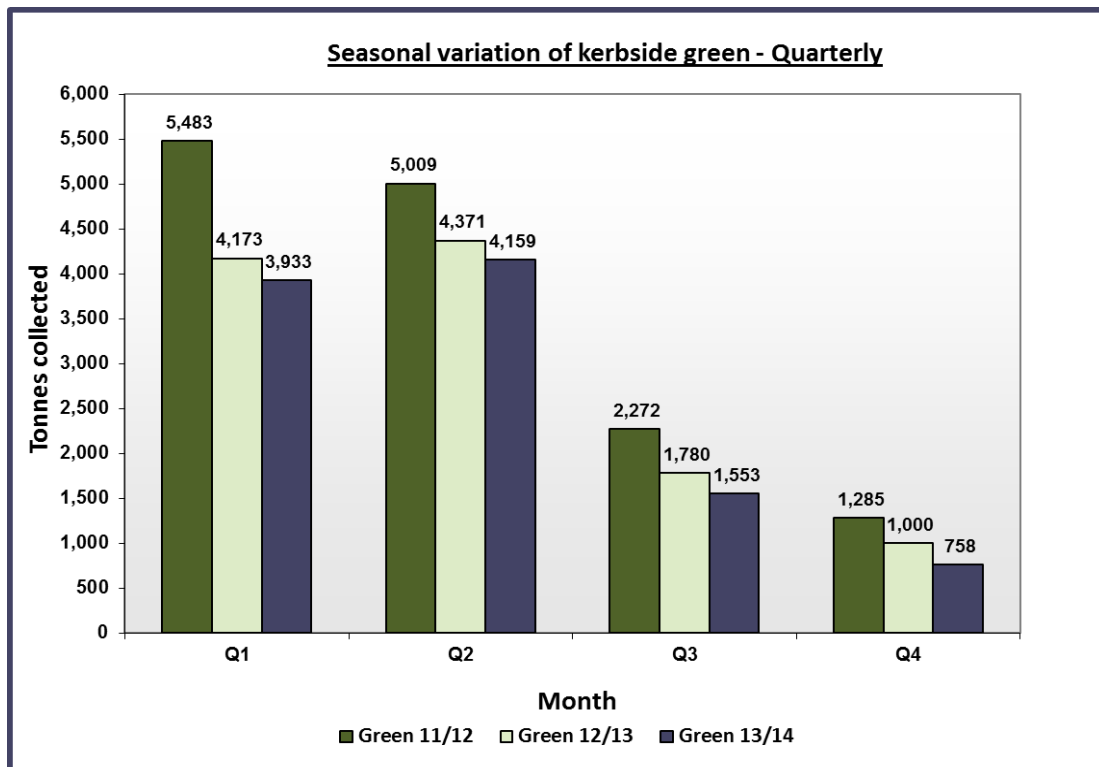


Figure 7 – Seasonal variation of kerbside green by quarter

Food waste kerbside service

Since the start of this new service in September 2013, The Council has collected 1,031 tonnes of segregated food waste equating to approximately 1.36kg/hh/wk. Often at the start of a new service participation is particularly high, so the likelihood is that the kg/hh/wk will drop off slightly in future months. The Council expects annual tonnage from this service to top around 1700-1800 tonnes equating to a 1.2 percentage point contribution to the overall recycling rate.

The food waste, collected in relatively small RCVs able to carry only 1.5-2.0 tonnes of material is bulked into special airtight containers and sent for In-Vessel Composting (IVC). The product from this composting system can be used for soil conditioner much like the compost produced in open windrows, although it is considered to be of premium quality due to its higher nutrient content.

Comingled kerbside service

Full roll-out of alternate weekly collections was completed in July 2012 with around 118,000 households in total becoming part of the Highland wide standardised service. This also included 4,227 commercial customers, although this varies slightly throughout the year.

Highland Council collected 15,909 tonnes of mixed dry recyclate from a total of almost 121,899 premises, a slight increase of 0.6% on 2012/2013. An approximate area breakdown can be seen in

AWC comingled service					
2013-2014					
Area	Households	Commercial recycling customers	Tonnes collected 2013/2014	Tonnes collected 2012/2013	Change
Badenoch & Strathspey	7,421	460	1,089	1,145	-4.9%
Caithness	13,995	353	1,830	1,963	-6.8%
Inverness	37,836	709	5,135	5,049	1.7%
Lochaber	10,312	482	1,362	1,399	-2.7%
Nairn	6,251	139	837	863	-3.1%
Ross & Cromarty	26,521	838	3,666	3,677	-0.3%
Skye & Lochalsh	7,377	805	1,071	1,023	4.7%
Sutherland	7,959	441	919	693	32.5%
TOTAL	117,672	4,227	15,909	15,812	0.6%

Table 6 below. There was an average reduction of 0.8% in material collected if Sutherland is discounted as 2012/2013 was a part year for this area covering only July 2012 – March 2013. Inverness and Skye & Lochalsh went against this trend however with overall increases in material collected.

AWC comingled service

2013-2014					
Area	Households	Commercial recycling customers	Tonnes collected 2013/2014	Tonnes collected 2012/2013	Change
Badenoch & Strathspey	7,421	460	1,089	1,145	-4.9%
Caithness	13,995	353	1,830	1,963	-6.8%
Inverness	37,836	709	5,135	5,049	1.7%
Lochaber	10,312	482	1,362	1,399	-2.7%
Nairn	6,251	139	837	863	-3.1%
Ross & Cromarty	26,521	838	3,666	3,677	-0.3%
Skye & Lochalsh	7,377	805	1,071	1,023	4.7%
Sutherland	7,959	441	919	693	32.5%
TOTAL	117,672	4,227	15,909	15,812	0.6%

Table 6 – AWC comingled service performance

The graph below in **Figure 8** tries to give a representation of the performance of both households and commercials in each area of Highland in the last couple of years. These numbers are based on a calculation taking into account the number of households and commercial customers, along with total volume of waste capacity for uplift at the kerbside. There was a slight decrease overall in kg/HH/wk reducing from an average of 2.40 to 2.30 in 2013/2014, while kg/COM/wk increased from 6.27 to 7.27. The commercial values will always be higher as many premises have several bins for uplift. Some areas such as Nairn have a lower number of customers and therefore a relatively small change in tonnes collected or customers can have a bigger impact on the kg/COM/wk.

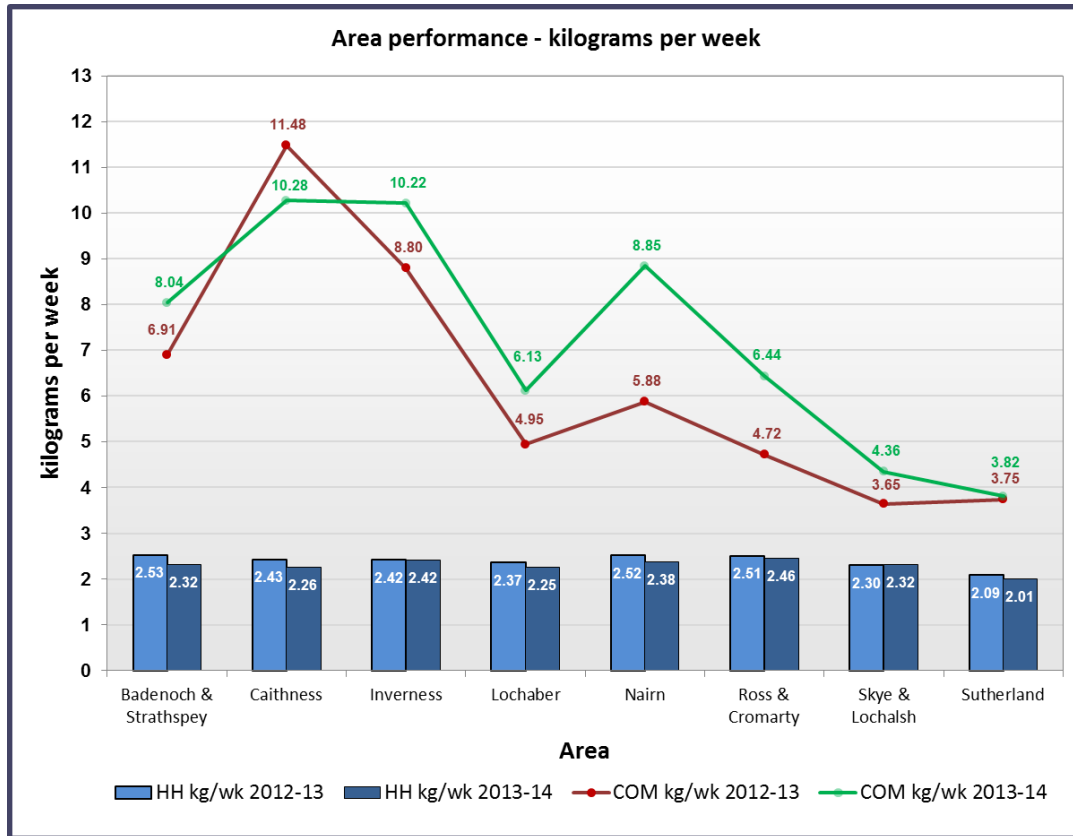


Figure 8 – Commercial & household performance by area

During 2013/2014 The Council sent the mixed dry recyclate collected in blue bins to four separate material recovery facilities. Three of these were outside Highland with two in Perth, and the other in Grangemouth. One Perth facility at Glenfarg is run by SITA UK with the other run by Wyllie Recycling Ltd. ORAN Environmental Solutions run the other facility in Grangemouth near Falkirk. William Munro Construction Ltd operates the remaining facility which is within Highland at their Evanton MRF.

Recycling Centres & Transfer Stations / Ionadan Ath-chuairteachaidh & Stèiseanan Gluasaid

There was a fairly significant increase in material collected at recycling centres and transfer stations between 2012/2013 and 2013/2014. The total tonnage diverted increased by 10.4%. Of this increase of 2,240 tonnes, almost 1,500 tonnes (67%) of that was soil and stones and 493 tonnes (22%) was plasterboard totalling 89% of the overall increase.

The increase in plasterboard diverted was due entirely to the roll-out of skips at eight new sites. Plasterboard is now ranked in the top ten of materials diverting the greatest tonnage at recycling centres, just behind glass and small domestic appliances.

Overall, recycling centres and transfer stations in 2013/2014 brought in a total of 47,400 tonnes of waste and recycling, an increase of around 6.4%, almost identical to that in 2011/2012. Of this, 23,697 tonnes of material was segregated for recycling (see **Table 7** for material breakdown) and 23,689 tonnes required disposal to landfill. This equates to an overall recycling rate for recycling centres and transfer stations of 50.0% which represents an increase from 48.1% in 2012/2013.

RECYCLING CENTRES & TRANSFER STATIONS			
Material	2011/12	2012/13	2013/2014
Batteries - automotive	29	29	30
Batteries - post consumer	5	6	6
Bikes	12	13	5
Bric a brac	15	14	15
Cans	32	10	7
Cardboard	1,241	1,041	1,149
Comingled		41	51
Furniture	75	100	123
Garden waste	5,418	4,537	4,556
Gas cylinders	31	28	19
Glass	658	620	590
Hardcore (soil & stones)	8,299	7,462	8,957
Metals	1,409	1,507	1,567
Oil	38	35	38
Oil filters	5	6	2
Paper	410	185	103
Plasterboard		89	582
Plastic bottles	102	12	9
Tetrapaks	9	12	17
Textiles	128	145	148
Tyres	167	143	158
WEEE - Cathode Ray Tubes	645	564	505
WEEE - Cooling appliances	377	377	432
WEEE - Gas Discharge Lamps	3	4	5
WEEE - Large domestic appliances	689	715	715
WEEE - Small domestic appliances	567	611	592
Wood	2,810	3,151	3,316
TOTAL	23,174	21,457	23,697

Table 7 - Material tonnage from Recycling Centres

For recycling centres excluding transfer stations, the recycling rate recovered to 60.4%, however still not quite reaching the rate of two years ago (**Table 8**).

Recycling Centre	2011/12	2012/13	2013/2014
Alness	54.2%	47.5%	43.1%
Aviemore	67.2%	67.4%	71.5%
Bonar Bridge	19.0%	18.4%	22.2%
Dingwall	74.1%	72.0%	67.6%
Durness	3.4%	2.8%	1.9%
Fort William	61.4%	58.3%	58.4%
Grantown	65.0%	62.7%	66.3%
Inverness	68.3%	62.0%	65.6%
Kingussie	56.1%	57.7%	56.3%
Lairg	16.4%	14.6%	17.9%
Nairn	73.4%	74.0%	75.2%
Portree	32.4%	39.8%	52.7%
Seater	15.0%	18.5%	18.0%
Tain	60.9%	55.9%	53.0%
Thurso	56.2%	54.5%	57.9%
Wick	53.9%	50.4%	53.3%
Overall	62.0%	58.7% ↑	60.4%

Table 8 - Recycling Centre recycling rates²

While transfer stations do bring in a limited amount of recycling, a significant amount of residual waste into transfer stations is RCV delivered hence any recycling rate calculation is inherently difficult to achieve. It should also be noted that a number of the transfer stations are merely manned sites in outlying areas with a few skips for mixed waste which are used to bulk materials locally to be transferred to larger transfer stations such as Brora (hence the large tonnage going through this site).

A more detailed breakdown of the tonnage recycled at individual recycling centres and transfer stations is provided in **Appendix C** and **Appendix D**. The cumulative totals for this information may however not add up exactly to the totals above as there is some inter-site movement of materials involved, particularly in Sutherland.

² There have been some slight adjustments to 2012/2013 figures due to human error

The graph below (**Figure 9**) shows some interesting trends in the number of kilograms per household disposed of at each recycling centre in its catchment area. Each catchment is loosely based on the number of households up to 30 minutes travel distance from a recycling centre, and this data is therefore very much an estimation. The graph is ordered by total waste arisings (secondary axis), decreasing from left to right.

If we take these numbers at face value, it is interesting to note the variation in kg/hh/year particularly with reference to Alness, Nairn and Aviemore. Alness appears to have a rather high proportion of landfill per household, while Nairn is at the opposite end of the scale with a high proportion of recycling. To actually make any conclusions based on this data is difficult, but it could be used in combination with other sources to target particular sites where landfill for example is high per household in its catchment.

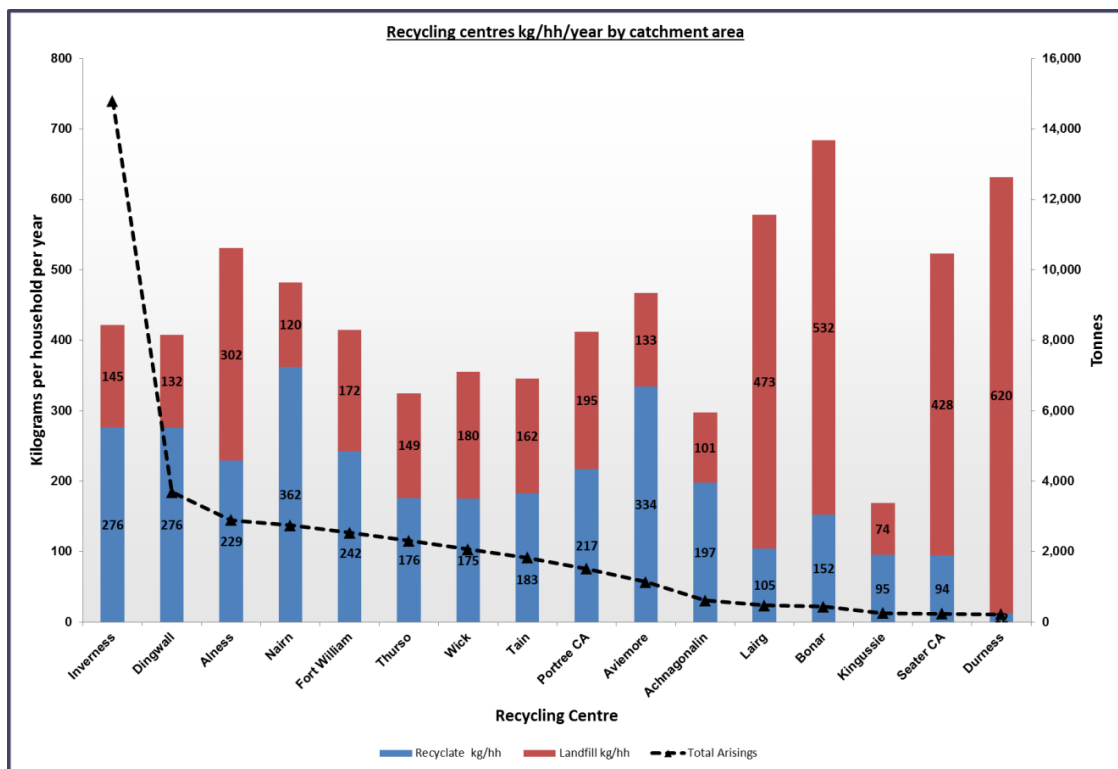


Figure 9 - Recycling Centres kg/hh/year by catchment area

Recycling Points / Àiteachan Ath-chuairteachaidh

In the period April 2013 to March 2014 there was a net increase of four recycling points in Highland. This composed of seven new bring sites and three closures. Of the seven new sites, four of these were nodes designed to have a smaller footprint and not as visible in urban areas. These nodes, which are essentially 1100 litre bins in an enclosure, are able to take colour separated glass and DMR. This included sites such as Bught Park Shops and Culloden Pitches in Inverness.

The Council endeavours to provide facilities for recycling wherever an appropriate location with a sufficiently sized catchment can be found, and it is within the Council's budget to do so. Due to the geography of the Highlands, it can be very difficult at times to provide a service, but the Council does its best to provide facilities where the public can recycle their waste. Increasingly few locations are being found for additional sites, with dense urban areas being particularly challenging due to compact housing, hence the moved towards nodes in the city of Inverness. By March 2013 there were 205 recycling points (excluded recycling centres) in Highland.

Table 9 shows a breakdown of tonnage captured at recycling points in the last three years. The data for paper and cans in 2012/2013 was not considered to be accurate, a belief based on confidence in the contractor's weighing system and comparisons to the quantities of material dispatched for recycling. However this was rectified in 2013/2014 and now represents a more accurate picture and expected reduction after the roll-out of alternate weekly collections.

Material	Tonnes 2011/12	Tonnes 2012/13	Tonnes 2013/2014
Glass	3,974	4,490	4,893
Paper	1,378	936	441
Textiles	523	516	502
Cans	60	73	35
Books	8	6	6
Total	5,944	6,022	5,877

Table 9 – Material collected from Recycling Points

The quantity of glass collected has again increased considerably, between 2012/2013 and 2013/2014. This almost made up for the considerable drop in paper and cans collected, but unfortunately material collected at recycling points reduced by 2.4%. The squeeze on bins is clearly still having a positive impact on behaviour; increasing glass recycling participation. A detailed breakdown of tonnages received from The Council's contractors is available in **Appendix B**.

Recyclate Destinations / Cinn-uidhe Stuthan Ath-chuairtiche

A full detailed breakdown of where The Highland Council has sent the various materials collected for recycling is available in **APPENDIX A**. These are listed in alphabetical order by material type and show the individual tonnes sent to each destination in the past two years. The variety of materials, and in turn the number of contractors The Council sends recyclate to is ever increasing, which has made the accuracy and efficiency of data recording and reporting progressively more important.

The majority of green waste in the Highland Council area is composted at a group of farms in Nairnshire. All green waste from Granish and Longman eventually gets dispatched to Seafeld Park Farm, composted, and then used as a soil improver. Material at Longman does get shredded however and the composting process starts here, but completes at Seafeld Park Farms.

Energy from Waste / Lùth bho Sgudal

While The Council does not have a contract in place to dispose of residual waste to an Energy from Waste (EfW) plant, since 2007 a small proportion of residual waste arisings have been disposed of in this manner. This started with the plant in Dundee, and more recently to the Shetland Islands Council facility in Lerwick.

Figure 10 below shows totals of all the residual waste sent direct for disposal by incineration since 2007. This peaked in 2011/2012, while both Dundee and Shetland facilities were available, which was 1.04% of total waste arisings. However, with a serious fire in May 2012 at the Dundee facility, total Highland waste incinerated has dropped, in 2013/2014 contributing to only 0.7% of total waste arisings. Despite this small percentage, it represents a diversion of 757 tonnes from landfill, which otherwise would have cost The Council over £50k in landfill tax. This also has a positive impact on Highland's overall recycling rate.

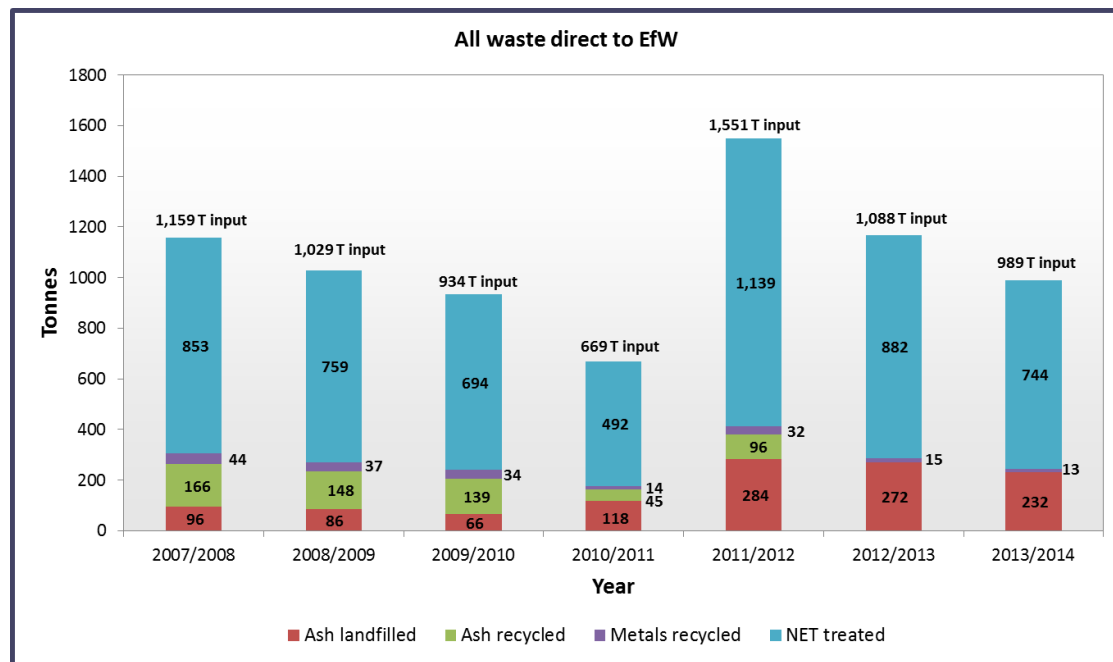


Figure 10 – All Highland waste direct to incineration (EfW)

Residual waste to Shetland, originating from Brora Transfer Station in the main, has been consistent over the last three years. The only input to EfW has been to Shetland in the last two years, which is why the total inputs and Shetland inputs for these years are identical. **Figure 11** shows these totals below.

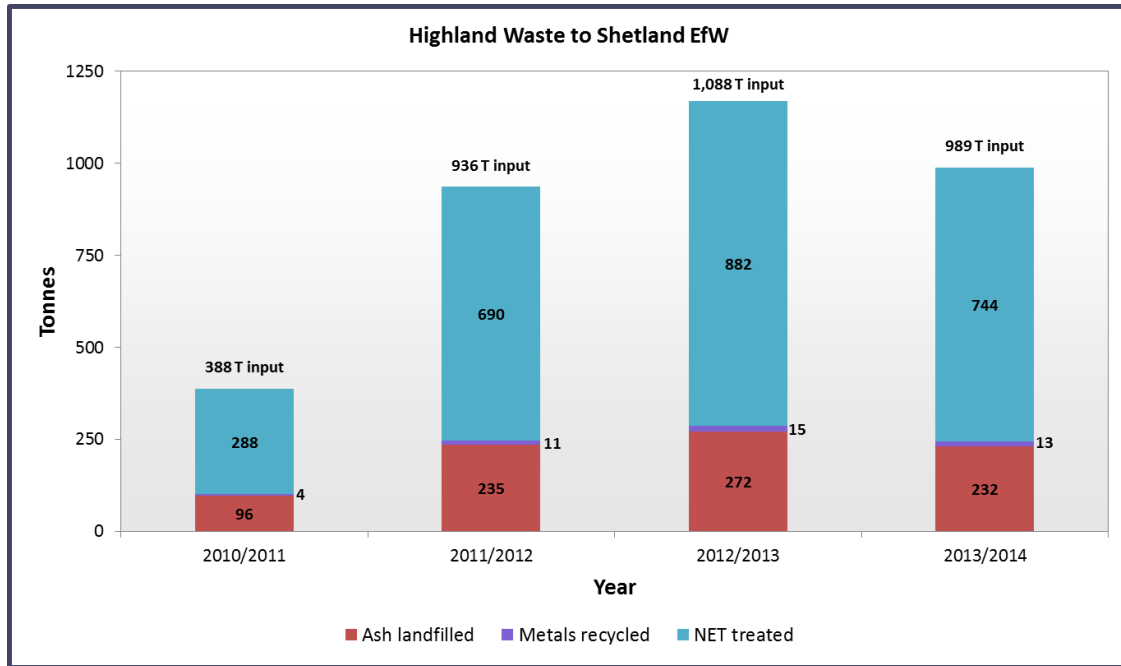


Figure 11 – Highland waste to Shetland Isles incinerator breakdown

In addition to waste The Council sent direct to EfW, a proportion of Highland waste was sent to Avondale Environmental Ltd via the waste contract with William Munro Construction (Highland) Ltd. They operated a residual material recovery facility (MRF) and refuse derived fuel (RDF) production facility, with this RDF product sent for EfW in Stockholm, Sweden. The facility closed down in May 2013 due to economic difficulties.

A total of 4,166 tonnes of waste was sent to Avondale, resulting in the overall diversion of 1,310 tonnes from landfill. The breakdown for which can be seen below in **Figure 12**. This was a drop of 33.4% in input and 38.2% in landfill diversion from the previous year.

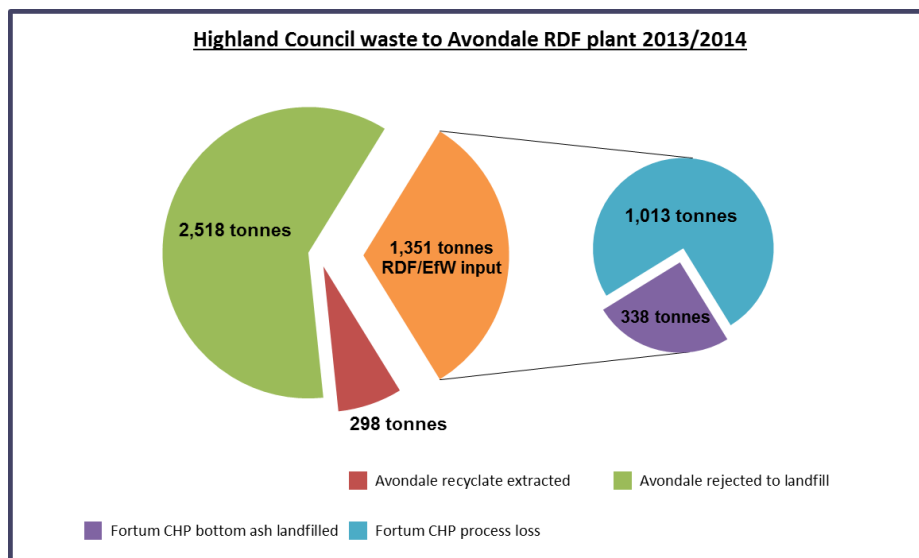


Figure 12 – Waste used in production of RDF for incineration with energy recovery

Disposal / Cur an Dàrna Taobh

As a method of waste treatment, disposal comes at the bottom of the waste hierarchy, but the Council unfortunately landfills the vast majority of its waste. The gap is gradually closing between recycling and landfilling, but ultimately 56.5% of Highland waste arisings were landfilled in 2013/2014, a 0.2 percentage point decrease on 2012/2013.

There was a relatively significant change to the final disposal points for residual waste from Skye & Lochalsh and Ross & Cromarty in 2013/2014. From June 2013 for Skye, and November 2013 for Ross & Cromarty all residual waste was hauled to The Council's own landfill site at Seater, Bower near Wick rather than at private landfills in the central belt. This would save money on contractor disposal charges and to some extent on haulage.

Table 10 below shows a breakdown of the waste Highland Council sent for disposal in the past three years. This table also shows rejected waste from MRFs as a small percentage of the comingled recyclate is inevitably disposed of due to contamination. These tonnages have increased in recent years due to more material collected on the alternate weekly collection service.

Location & facility type	Year	2011/12	2012/13	2013/2014
Energy from Waste (ash landfilled)				
Dundee Energy Recycling Ltd (DERL) - PPC/A/1003157		49	-	-
Shetland Islands Council - PPC/A/1003141		235	272	232
Fortum Hogdalenverket CHP Plant, Sweden - SE-01-563-72134-2004			552	338
Direct to Landfill				
Avondale - Avondale Environmental - PPC/E/0020086		93	-	23
Binn Farm Landfill - SITA UK - PPC/E/0020056		-	-	262
Duiskey - Locheil Logistics - PPC/N/0050031		7,991	7,660	7,861
Granish - Highland Council - PPC/A/1004251		5,116	4,675	4,692
Seater - Highland Council - PPC/N/1000148		12,273	12,150	24,543
West Carron - G R Service Company - PPC/A/1004300		2,904	-	-
Greengairs - WRG Environmental Ltd - PPC/W/0020041		2,632	5,867	1,012
Residual MRF/Transfer Stations				
W.Munro Construction, Beechwood Rd - WML/N/0220249		20,899	16,031	10,326
W.Munro Construction, Cromwell Rd - WML/L/1058351		37,444	27,013	27,423
Avondale - Avondale Environmental - WML/L/1092893			3,587	2,518
Material Recovery Facilities (rejected disposed)				
ORAN Environmental Solutions - WML/E/0120034		93	120	191
Binn Farm Landfill - SITA UK - PPC/E/0020056		158	267	247
W.Munro Construction, Beechwood Rd - WML/N/0220249		169	518	445
Wyllie Recycling Limited - WMX/E/0024187		-	-	23
Totals		90,056	78,711	80,135

Table 10 - Disposal of municipal solid waste 2011/2012 - 2013/2014

Waste to landfill actually increased by 1,424 tonnes (1.8%), but on a trend of increasing waste arisings of 2.1%. Despite this first increase in waste arisings since 2007/2008 and increase in waste to landfill since 2004/2005, the Highland recycling rate still increased by 0.6 percentage points from 41.5% to 42.1%. This therefore puts these landfill figures into perspective which may have at first glance seemed negative. Trends since 2001 can be seen in **Figure 13** below.

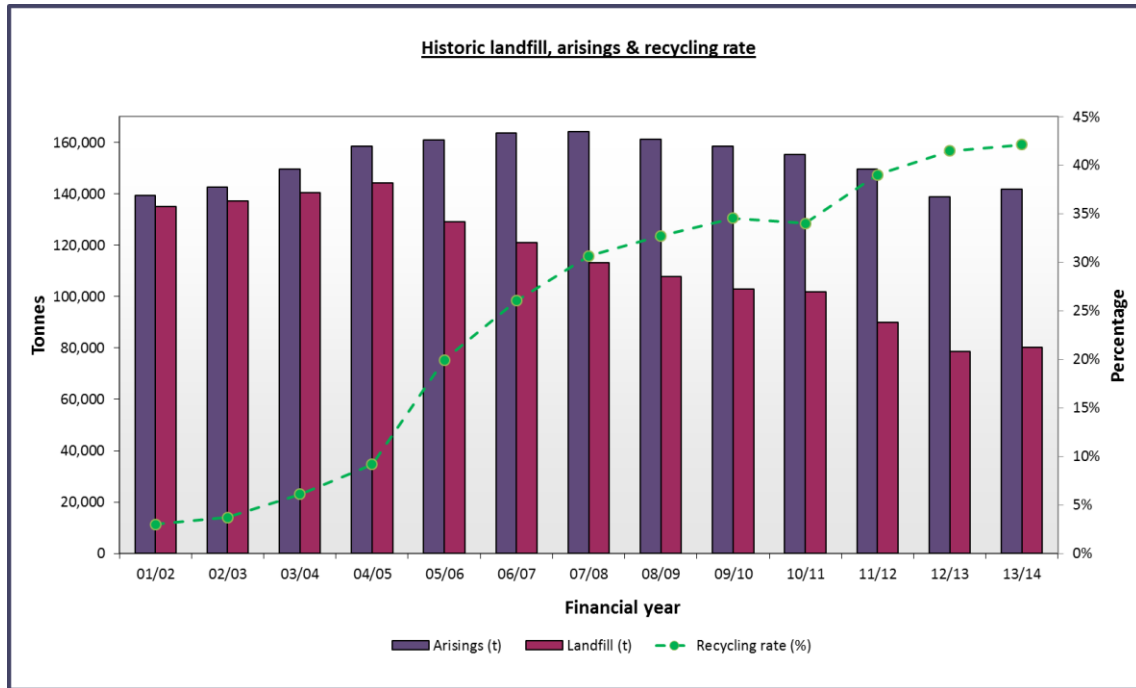


Figure 13 - Waste arisings, landfill and recycling rates (Historic)

APPENDIX A - Recyclate Destinations (by material) / PÀIPEAR-TAICE A – Cinn-uidhe Stuthan Ath-chuairtiche (a rèir stuth)

Material	Destination	Tonnage
Batteries (automotive)	Northburn Industrial Services Ltd, Aberdeen [PPC/A/1021604]	24.75
	Robert Finnie [WML/N/0050041]	6.33
Batteries (automotive) Total		31.08
Batteries (post consumer)	G&P Batteries [England]	5.91
Batteries (post consumer) Total		5.91
Bicycles	Golspie Recycling & Environmental Action Network (GREAN) [WMX/N/28139]	5.93
Bicycles Total		5.93
Books	Blythswood Care, Evanton	358.20
	New Start Highland	1.94
	Oxfam	6.25
Books Total		366.39
Bric A Brac	Acharacle Community Company [WML/XS/1023194]	10.33
	Blythswood Care, Evanton	262.70
	British Heart Foundation [England]	3.01
	Homeaid Caithness [WML/XC/1025531]	173.03
	New Start Highland	40.54
Bric A Brac Total		489.61
Cans (Aluminium)	Alloa Community Enterprises Ltd (ACE) [WML/XS/1028830]	14.46
	SITA UK Ltd, Binn Farm, Glenfarg [WML/L/1106191]	9.37
Cans (Aluminium) Total		23.83
Cans (Mixed Cans)	ORAN Environmental Solutions [WML/E/0120034]	147.27
	William Munro Construction Ltd, Evanton [WML/N/0220249]	635.26
	Wyllie Recycling Ltd, Perth [WMX/E/0024187]	15.07
Cans (Mixed Cans) Total		797.59
Cans (Steel)	John R Adam & Son Ltd, Irvine [WML/W/0000234]	16.16
	SITA UK Ltd, Binn Farm, Glenfarg [WML/L/1106191]	262.05
Cans (Steel) Total		278.21
Cardboard	Highland Waste Services Ltd [WML/N/0050390]	19.46
	ORAN Environmental Solutions [WML/E/0120034]	218.97
	SITA UK Ltd, Binn Farm, Glenfarg [WML/L/1106191]	905.66
	SITA UK Ltd, Stoneyhill [WML/N/0220023]	423.68
	William Munro Construction Ltd, Evanton [WML/N/0220249]	2,791.53
	William Tracey Ltd [WML/W/0020110]	310.92
	WM Munro T.S. Cromwell Road, Inverness [WML/L/1058351]	49.12
	Wyllie Recycling Ltd, Perth [WMX/E/0024187]	286.31
Cardboard Total		5,005.66
Food Waste	William Munro Construction Ltd, Evanton [WML/N/0220249]	1,031.26
Food Waste Total		1,031.26
Furniture	Acharacle Community Company [WML/XS/1023194]	9.81
	Blythswood Care, Evanton	295.37
	Homeaid Caithness [WML/XC/1025531]	145.98
	New Start Highland	458.32
Furniture Total		909.48
Garden waste	Highland Council (Granish Composting) [WMX/N/0026342]	1,502.74
	Highland Council (Invergordon BUS) [WML/N/0220207]	1,762.28
	Highland Council (Longman Composting) [WML/N/50036]	9,949.54
	Highland Council (Seater composting) [PPC/A/1000148]	1,883.10
	Lochaber Environment Group (LEG)	39.81
	Locheil Logistics [PPC/N/0050031]	760.08
Garden waste Total		15,897.55

Material	Destination	Tonnage
Gas Cylinders	Blackpark Filling Station, Inverness	1.59
	BOC Tradequip	0.23
	Flogas Aberdeen	1.09
	Jans Vans, Portree, Isle of Skye	0.68
	Mac Gas Perth	2.43
	T P McHardy Ltd	3.14
	The Buccaneers Service Station, Elgin	1.78
	West End Filling Station (Gleaner Oil & Gas Ltd)	1.90
	Williamson Group Ltd	2.23
Gas Cylinders Total		15.07
Glass	Viridor Glass Recycling [WML/XS/1081459]	5,465.49
Glass Total		5,465.49
Glass (Mixed)	Viridor Glass Recycling [WML/XS/1081459]	35.46
Glass (Mixed) Total		35.46
Oil	Northburn Industrial Services Ltd, Aberdeen [PPC/A/1021604]	39.64
Oil Total		39.64
Oil Filters	Northburn Industrial Services Ltd, Aberdeen [PPC/A/1021604]	1.80
Oil Filters Total		1.80
Paper	Newport Paper Ltd [EX102010117]	91.74
	ORAN Environmental Solutions [WML/E/0120034]	2,566.00
	SAICA Paper Uk Ltd [ZP3736XH]	81.00
	SITA UK Ltd, Binn Farm, Glenfarg [WML/L/1106191]	2,575.68
	SITA UK Ltd, Stoneyhill [WML/N/0220023]	26.38
	Smurfit Recycling, Glasgow [WML/XS/1080737]	34.46
	William Munro Construction Ltd, Evanton [WML/N/0220249]	4,430.96
	WM Munro T.S. Cromwell Road, Inverness [WML/L/1058351]	8.68
	Wyllie Recycling Ltd, Perth [WMX/E/0024187]	361.66
Paper Total		10,176.55
Plasterboard	William Munro Construction Ltd, Evanton [WML/N/0220249]	609.86
Plasterboard Total		609.86
Plastic bottles - mixed	AWS Eco Plastics Ltd, Lincolnshire	32.27
	ORAN Environmental Solutions [WML/E/0120034]	189.46
	SITA UK Ltd, Binn Farm, Glenfarg [WML/L/1106191]	307.30
	William Munro Construction Ltd, Evanton [WML/N/0220249]	360.05
	WM Munro T.S. Cromwell Road, Inverness [WML/L/1058351]	6.07
		Wyllie Recycling Ltd, Perth [WMX/E/0024187]
Plastic bottles - mixed Total		962.97
Plastics (other)	Beaumont Farms Ltd [CB/HE5631AT/V003]	49.77
Plastics (other) Total		49.77

Material	Destination	Tonnage
Scrap metal	A M O'Brien Scrapyard [WML/XC/1027733]	48.14
	ASM Metal Recycling Ltd	3.22
	Blythswood Care, Evanton	44.35
	Brookfield Metals [WML/E/0220099]	120.62
	David Ritchie & Sons Ltd [WML/N/0220031]	166.98
	Highland Car Crushers Ltd [WML/N/0220112]	523.76
	Highland Waste Services Ltd [WML/N/0050390]	18.42
	Locheil Logistics [PPC/N/0050031]	133.78
	New Start Highland	58.10
	Robert Finnie [WML/N/0050041]	427.61
	Speedy Skip Hire [WML/N/0050088]	139.01
	Sutherland Scrap Metal, Wick [WML/XC/1111124]	86.80
	William Munro Construction Ltd, Evanton [WML/N/0220249]	16.40
WM Munro T.S. Cromwell Road, Inverness [WML/L/1058351]	10.44	
Scrap metal Total		1,797.63
Soil & Rubble	A & W Sinclair [PPC/B/1014768]	372.84
	Cairns Quarry, Stirkoke, Wick [PPC/N/0060089]	336.46
	David Ritchie & Sons Ltd [WML/N/0220031]	338.36
	Lochaber Aggregates [PPC/B/1008895]	180.69
	Locheil Logistics [PPC/N/0050031]	30.52
	Robert Finnie [WML/N/0050041]	2,981.16
	William Munro Construction Ltd, Evanton [WML/N/0220249]	4,373.46
	WM Munro T.S. Cromwell Road, Inverness [WML/L/1058351]	111.01
Soil & Rubble Total		8,724.50
Tetrapaks	Shanks Waste Services Ltd [WML/N/0220004]	16.60
Tetrapaks Total		16.60
Textiles & footwear	Acharacle Community Company [WML/XS/1023194]	4.71
	Blythswood Care, Evanton	662.12
	Nathans Waste Savers Ltd [WML/XS/1081733]	399.40
	New Start Highland	11.98
	Salvation Army [YQ2SAL002/0/17]	233.54
Textiles & footwear Total		1,311.76
Tyres - mixed	Mcintyres [WML/L/1095218]	29.19
	Robert Finnie [WML/N/0050041]	99.64
Tyres - mixed Total		128.83
WEEE - Cathode Ray Tubes	Viridor Electrical Recycling [PPC/A/1035205]	513.86
WEEE - Cathode Ray Tubes Total		513.86
WEEE - Flourescent tubes and other	Mercury Recycling Ltd	5.51
WEEE - Flourescent tubes and other light bulbs Total		5.51
WEEE - Fridges & Freezers	Homeaid Caithness [WML/XC/1025531]	4.70
	Viridor Electrical Recycling [PPC/A/1035205]	445.51
WEEE - Fridges & Freezers Total		450.21
WEEE - Large Domestic App	Homeaid Caithness [WML/XC/1025531]	22.06
	Viridor Electrical Recycling [PPC/A/1035205]	742.52
WEEE - Large Domestic App Total		764.58
WEEE - Small Domestic App	Viridor Electrical Recycling [PPC/A/1035205]	603.06
WEEE - Small Domestic App Total		603.06

Material	Destination	Tonnage
Wood	David Ritchie & Sons Ltd [WML/N/0220031]	356.91
	Harper Wood recycling	2,605.44
	Locheil Logistics [PPC/N/0050031]	329.92
	New Start Highland	79.78
	William Munro Construction Ltd, Evanton [WML/N/0220249]	27.36
	WM Munro T.S. Cromwell Road, Inverness [WML/L/1058351]	16.01
Wood Total		3,415.42

**APPENDIX B – Recycling Points 2013-2014 / PÀIPÉAR-TAICE B – Àiteachan
Ath-chuairteachaidh**

Ward name	Address	Glass	Cans	Paper	Textiles	Grand Total
Aird & Loch Ness	Balnain, near Primary School	10.83	0.14	1.83	1.08	13.88
	Beauly, Braeview Park	63.98	0.48	6.83	2.08	73.37
	Cannich, Village Hall	10.39	0.00	0.00	0.00	10.39
	Dores, Dores Inn	7.97	0.09	0.31	0.00	8.38
	Drumnadrochit, Visitors Centre Car Park	30.16	0.64	6.44	5.93	43.16
	Fort Augustus, Main Car Park	11.87	0.19	1.34	1.71	15.11
	Fort Augustus, Village Hall	9.99	0.13	1.42	1.53	13.06
	Foyers, Opposite Doctors Surgery	8.75	0.28	1.28	1.52	11.82
	Gorthleck, Village Hall	6.73	0.05	0.72	0.38	7.88
	Inverarnie, Shop	9.92	0.14	3.15	0.65	13.87
	Invermoriston, Car Park	10.97	0.17	1.66	1.75	14.55
	Kiltarlity, Village Hall	9.73	0.12	1.42	2.93	14.20
	Kirkhill, Village Hall	30.01	0.00	---	1.63	31.64
Aird & Loch Ness Total		221.29	2.45	26.39	21.19	271.31
Badenoch & Strathspey	Aviemore, Dalfaber Industrial Estate	40.85	0.25	3.29	0.83	45.21
	Aviemore, Tesco, Grampian Road	54.32	0.47	2.32	2.96	60.07
	Boat of Garten, Lorry Park	36.66	0.23	2.35	1.02	40.26
	Carrbridge, Car Park	37.58	0.23	1.47	1.03	40.32
	Cromdale, Post Office	11.52	0.16	0.54	0.82	13.04
	Dalraddy, Dalraddy Holiday Park	7.40	0.00	0.20	0.00	7.60
	Dalwhinnie, Garage Car Park	7.60	0.18	1.53	0.20	9.52
	Dulnain Bridge, Picnic Area	10.85	0.17	0.64	0.44	12.09
	Glenmore, Campsite	8.12	0.10	1.75	0.00	9.96
	Grantown, Burnfield Car Park	68.58	0.51	5.11	3.75	77.96
	Kincraig, Village Hall	22.59	0.23	1.79	0.78	25.39
	Kingussie, Market Stance	55.49	0.39	4.97	2.74	63.59
	Laggan, Lay-by, Doctor's Surgery	12.93	0.20	0.96	0.46	14.54
	Nethybridge, Village Hall	36.23	0.21	1.32	0.74	38.50
Newtonmore, Chef's Diner Car Park	51.05	0.27	2.72	0.55	54.58	
Badenoch & Strathspey Total		461.75	3.59	30.97	16.32	512.63
Black Isle	Avoch, Old Salt Pile	46.10	0.07	1.64	3.95	51.76
	Cromarty, Harbour Car Park	31.57	0.23	1.69	1.11	34.60
	Culbokie, Football Pitch	40.55	0.21	2.64	2.34	45.74
	Fortrose, Station Road	49.61	0.41	10.07	5.03	65.12
	North Kessock, Public Toilets	23.06	0.32	2.39	1.20	26.97
	Resolis, Memorial Hall	22.30	0.12	1.12	1.29	24.83
	Rosemarkie, Fairy Glen Car Park	41.25	0.17	2.05	2.22	45.69
	Tore, Community Centre	13.21	0.16	0.24	0.30	13.92
Black Isle Total		267.65	1.70	21.84	17.45	308.64
Caol & Mallaig	Arisaig, Public Toilets	17.69	0.18	2.88	2.67	23.42
	Canna,	1.28	0.00	0.00	0.00	1.28
	Caol, Lochy Bar	9.20	0.19	0.06	0.29	9.73
	Caol, Shopping Centre	20.24	0.21	3.17	2.32	25.93
	Corpach, Kilmallie Community Centre	25.69	0.11	2.12	1.29	29.21
	Eigg,	4.34	0.48	1.48	0.00	6.30
	Fort William, Health Centre, Opposite Lochaber High	3.56	0.00	1.69	0.28	5.54
	Glenfinnan, Glenfinnan Hotel	5.32	0.15	0.53	0.48	6.48
	Invergarry, Post Office	12.16	0.09	1.00	5.84	19.08
	Knoydart, Inverie	7.46	0.20	0.00	0.00	7.66
	Mallaig, Mallaig Pier	1.14	---	---	0.00	1.14
	Mallaig, Mallaig West Bay	20.20	0.39	3.73	4.61	28.93
	Morar, Morar Hotel	2.71	---	---	0.00	2.71
	Muck,	4.06	0.00	0.00	0.00	4.06
	Roy Bridge, Car Park opposite village hall	13.98	0.22	2.86	0.52	17.58
Rum,	0.00	0.22	0.00	0.00	0.22	
Spean Bridge, Village Hall	16.63	0.14	1.47	0.50	18.73	
Caol & Mallaig Total		165.65	2.57	20.98	18.80	207.99

Ward name	Address	Glass	Cans	Paper	Textiles	Grand Total
Cromarty Firth	Alness, Car Park, Obsdale Road	44.61	0.27	4.27	4.72	53.87
	Alness, Lidl's, Dalmore Road	32.61	0.16	1.30	2.67	36.73
	Alness, Morrisons	52.79	0.38	2.16	8.69	64.02
	Alness, Westford, Coulpark	6.76	0.12	1.09	1.00	8.96
	Ardross, Primary School	23.20	0.07	0.43	0.59	24.28
	Evanton, Balconie Street	41.31	0.13	1.21	2.49	45.14
	Evanton, Blythswood, Deephaven Industrial Estate	9.78	0.03	0.77	0.00	10.58
	Inverbekie, Inverbekie Drive	5.27	---	---	0.00	5.27
	Invergordon, Castle Road, Car Park	42.02	0.31	7.69	4.51	54.53
	Invergordon, Social Club	11.91	0.10	1.07	0.53	13.61
	Newmore, Beside playing field	5.28	0.07	0.47	0.41	6.23
	Saltburn, B817 nr Invergordon	10.55	0.03	0.29	0.00	10.87
Cromarty Firth Total		286.08	1.66	20.76	25.59	334.09
Culloden & Ardersier	Ardersier, Memorial Hall	20.37	0.12	1.40	3.13	25.02
	Cawdor, Old Smithy	26.68	0.03	1.21	1.34	29.25
	Inverness, Keppoch Road, Culloden	52.16	0.26	2.36	3.99	58.76
	Inverness, Tesco, A96 Retail & Business Park	161.71	0.65	9.23	28.99	200.57
Culloden & Ardersier Total		260.92	1.05	14.19	37.44	313.60
Dingwall & Seaforth	Conon Bridge, Car Park	44.08	0.17	2.50	1.32	48.07
	Dingwall, Car Park 3	41.62	0.07	2.16	2.36	46.21
	Dingwall, Lidl	41.40	0.18	3.01	4.51	49.11
	Dingwall, Tesco	58.73	0.56	9.78	11.45	80.53
	Muir of Ord, Seaforth Road	51.45	0.24	3.84	2.87	58.39
Dingwall & Seaforth Total		237.28	1.22	21.28	22.51	282.29
East Sutherland & Edderton	Brora, Gower Street Car Park	49.13	0.18	4.10	5.90	59.31
	Dornoch, Business Park	65.67	0.14	9.18	5.31	80.31
	Edderton, Village Hall	7.38	0.00	0.41	0.76	8.54
	Embo, Grannie's Heilan Hame	7.55	0.16	1.18	0.00	8.88
	Golspie, Car Park, Fountain Road	51.67	0.11	1.38	0.00	53.16
	Helmsdale, Bridge Car Park, Shore Street	23.90	0.22	1.30	2.18	27.60
	Kinbrace, Opposite Kinbrace School	1.90	0.00	0.52	0.32	2.74
	Rogart, Auction Mart	13.45	---	---	0.58	14.03
East Sutherland & Edderton Total		220.65	0.82	18.07	15.04	254.57
Eilean a' Chéo	Armadaile, Pier Car Park	10.86	0.09	1.80	1.99	14.73
	Armadaile, Sabhal Mor Ostaig	7.72	0.11	2.92	1.50	12.25
	Braes, Community Hall	1.68	0.03	0.17	0.52	2.40
	Broadford, Filling Station Car Park	46.54	0.18	3.03	3.63	53.37
	Carbost, Carbostbeg	12.27	0.20	0.98	0.82	14.26
	Dunvegan, Public Toilets Car Park	25.58	0.26	3.18	2.08	31.10
	Edinbane, Lodge Hotel	7.46	0.04	0.09	0.48	8.07
	Fairy Bridge,	11.89	---	---	0.00	11.89
	Glendale, Borrodale School Car Park	3.35	0.04	3.18	0.00	6.57
	Kilvaxter, Village Hall	3.84	0.03	1.05	1.13	6.04
	Kyleakin, Car Park	12.21	0.17	1.20	0.96	14.53
	Portree, Bayfield Car Park	14.09	0.17	1.84	2.23	18.34
	Portree, Co-op	38.94	0.47	3.85	9.54	52.80
	Portree, High School car park, Viewfield Road	2.79	0.07	1.09	0.00	3.95
	Raasay, Public Toilets	0.00	0.00	0.00	0.00	0.00
	Sligachan, Slighachan Hotel	6.21	0.15	0.36	0.37	7.09
	staffin, columba 1400	6.08	0.06	0.91	4.33	11.38
Struan, Layby 1 mile NW of village	8.28	0.15	0.72	0.51	9.66	
Uig, Ferry Terminal Car Park	7.91	0.04	1.99	2.50	12.44	
Eilean a' Chéo Total		227.69	2.23	28.35	32.59	290.86

Ward name	Address	Glass	Cans	Paper	Textiles	Grand Total
Fort William & Ardnamurchan	Acharacle, Public Toilets	22.64	0.29	11.75	0.00	34.68
	Ardgour, Primary School	6.89	0.14	3.82	1.69	12.55
	Ballachulish, Pier	15.99	0.12	---	0.59	16.70
	Fort William, Ben Nevis Bar	12.19	---	---	0.00	12.19
	Fort William, Inverlochry Shopping Centre	12.33	0.06	0.85	1.09	14.33
	Fort William, Lidl's, Camanachd Crescent	17.27	0.19	1.83	0.93	20.20
	Fort William, Morrisons	34.67	0.41	5.01	5.90	45.99
	Glencoe, Public toilets	17.48	0.50	3.23	0.64	21.86
	Kilchoan, Sanna Crossroads	12.55	0.83	8.72	0.00	22.10
	Kinlochleven, Ice Factor	17.65	0.12	0.71	0.64	19.13
	Lochaline, Lochaline	7.47	0.15	5.92	1.63	15.18
	North Ballachulish, Onich Services	13.72	0.05	1.20	0.15	15.12
	Strontian, Strontian	11.63	0.36	14.09	4.82	30.91
	Trislaig, Camusnagaul Pier	0.69	0.00	0.00	0.00	0.69
Fort William & Ardnamurchan Total		203.18	3.22	57.12	18.09	281.61
Inverness Central	Inverness, Co-op, Telford Street	69.60	0.23	13.28	7.62	90.73
	Inverness, Highland Council HQ, Glenurquhart Road	15.18	0.03	0.68	0.67	16.56
	Inverness, Lidl's, Telford Road	60.31	0.46	3.38	0.82	64.97
	Inverness, Morrisons, Millburn Road	86.34	0.25	4.95	11.82	103.35
	Inverness, Tesco, King Street	90.51	0.50	4.59	7.42	103.02
	Inverness, Thornbush Road, South Kessock	6.31	0.06	0.44	1.54	8.35
Inverness Central Total		328.24	1.54	27.32	29.88	386.98
Inverness Millburn	Inverness, B&Q, Longman Road	28.20	0.14	1.30	3.82	33.47
	Inverness, King Duncans Road, Shop Car Park	15.11	---	---	0.00	15.11
	Inverness, Raigmore, Woodside Terrace	3.45	0.10	0.45	0.36	4.36
	Inverness, Victoria Drive, Youth Hostel Car Park	6.04	0.05	0.12	0.00	6.21
	Inverness, Wimberley Way, Community Centre Car Park	5.82	0.09	0.24	0.00	6.15
Inverness Millburn Total		58.63	0.38	2.11	4.19	65.31
Inverness Ness-side	Inverness, Drumblair Stores, Dores Road	8.84	---	---	0.00	8.84
	Inverness, Old Town Road, Hilton	40.94	0.14	3.04	2.77	46.89
	Inverness, Tesco, Dores Road	107.16	0.36	6.16	17.39	131.06
Inverness Ness-side Total		156.94	0.50	9.20	20.16	186.79
Inverness South	Daviot, Quarry Car Park	5.74	0.03	0.77	0.40	6.94
	Inverness, Asda, Sir Walter Scott Drive	73.87	0.18	5.23	11.98	91.26
	Inverness, Caulfield Road, Cradlehall	32.57	0.05	2.21	4.95	39.77
	Inverness, Milton of Leys, Sandalwood	32.06	---	---	6.58	38.63
	Inverness, Tesco, Inshes Retail Park	166.09	0.39	10.85	36.99	214.32
	Tomatin, next to sewage works	24.81	0.06	0.71	0.43	26.01
Inverness South Total		335.13	0.71	19.77	61.32	416.92
Inverness West	Inverness, Aquadome, Bught Park	18.75	0.10	0.71	0.98	20.54
	Inverness, Charleston Shops, Kinmylies	41.30	0.08	1.37	3.53	46.28
	Inverness, James Cameron Community Centre	0.00	0.03	0.21	0.22	0.47
	Inverness, Laidlaw shop, Bruce Gardens	29.15	---	---	2.22	31.37
Inverness West Total		89.21	0.21	2.29	6.95	98.65
Landward Caithness	Castletown, Main St Car Park	17.34	0.25	2.43	2.95	22.97
	Dunbeath, Lay-by at Footbridge, Portormin Road	7.94	0.09	1.10	2.25	11.37
	Halkirk, Sinclair Street	13.34	0.09	3.70	1.66	18.79
	John O'Groats, Car & Coach Park	9.59	0.19	2.28	2.07	14.13
	Lybster, Next to Police Station	10.52	0.15	1.73	3.76	16.16
	Reay, Golf Course	10.49	0.11	1.24	0.87	12.72
	Thrumster, Finlayson Place	3.41	0.00	0.50	1.20	5.11
	Watten, Achingale Place	5.25	0.10	1.36	1.09	7.79
Landward Caithness Total		77.88	0.97	14.34	15.84	109.04
Nairn	Ferness, Village Hall	8.08	0.03	0.26	0.00	8.37
	Nairn, Co-op, King Street	77.24	0.39	4.26	6.26	88.15
	Nairn, Public Toilet, Harbour Street	54.61	0.15	1.32	1.95	58.04
	Nairn, Sainsbury's, Forres Road	107.99	0.35	3.29	23.74	135.37
Nairn Total		247.92	0.93	9.13	31.95	289.93

Ward name	Address	Glass	Cans	Paper	Textiles	Grand Total
North, West & Central Sutherland	Bettyhill, Layby East of Bettyhill	8.62	0.14	0.72	0.78	10.26
	Bonar Bridge, Industrial Estate	51.53	0.13	3.24	1.99	56.89
	Clachtoll, Caravan Park	8.46	0.12	0.56	0.00	9.15
	Durness, Durness, Village Square	11.08	0.15	3.15	0.42	14.80
	Kinlochbervie, Harbour Car Park	9.12	0.13	3.69	1.08	14.02
	Kylesku, Car Park, South Side of Bridge	3.49	0.14	0.48	0.00	4.11
	Lairg, Lairg, Sutherland Transport Car Park	46.11	0.21	1.72	1.59	49.62
	Lochinver, Kirk Road	0.00	0.00	0.00	0.00	0.00
	Lochinver, Main Street Car Park	23.14	0.30	2.43	1.70	27.57
	Melvich, Public Toilets	10.53	0.34	2.12	1.36	14.35
	Rosehall, Invercassley Stores	13.67	0.03	1.12	0.40	15.22
	Scourie, Council Yard, East of Telephone Mast/Exchange	8.49	0.05	0.72	0.42	9.69
	Tongue, Cemetary Car Park	11.85	0.20	1.51	0.82	14.37
	North, West & Central Sutherland Total		206.08	1.94	21.47	10.57
Tain & Easter Ross	Balintore, Public Toilets, Harbour	7.90	0.15	0.20	1.87	10.12
	Fearn, Fearn Hotel	5.65	0.04	0.50	1.16	7.35
	Inver, Village Hall	2.74	0.10	0.27	0.00	3.11
	Milton, Milton Inn	3.86	0.07	0.18	0.52	4.62
	Portmahomack, Main Street Car Park	8.09	0.10	1.17	1.00	10.35
	Tain, Asda, Knockbreck Road	90.52	0.24	1.53	6.37	98.67
	Tain, Co-op	52.83	0.11	1.00	3.04	56.98
	Tain, Lidl, Morangie Road	50.79	0.19	1.37	4.08	56.43
	Tain, Tesco, Station Road	53.43	0.19	1.74	4.97	60.33
Tain & Easter Ross Total		275.80	1.18	7.97	23.00	307.95
Thurso	Scrabster, Clett Terrace	1.05	0.00	0.00	0.00	1.05
	Thurso, Lidl	46.52	0.43	5.53	7.00	59.47
	Thurso, Riverside Car Park	38.63	0.28	11.30	9.80	60.01
	Thurso, Tesco, A882	---	0.12	0.00	2.78	2.89
Thurso Total		86.20	0.82	16.83	19.58	123.43
Wester Ross, Strathpeffer & Lochalsh	Achiltibuie, County Shed	12.56	0.17	1.93	2.74	17.40
	Achmore, Village Hall	2.89	0.00	0.00	0.00	2.89
	Achnasheen, Old Filling Station	11.59	0.06	0.55	0.32	12.51
	Applecross, Village Hall	7.34	0.37	0.96	0.00	8.67
	Aultbea, Clapper Bridge	15.05	0.17	3.14	1.16	19.51
	Balmacara Square, Car Park	8.78	0.04	0.46	0.00	9.28
	Contin, Old School Hall	31.87	0.09	1.52	0.00	33.47
	Dornie, Village Hall	13.43	0.15	1.67	1.80	17.05
	Dundonnell, Dundonnell Hotel	11.42	0.11	0.58	0.34	12.45
	Gairloch, Community Centre	24.16	0.20	4.60	2.83	31.79
	Gairloch, Old Inn	8.63	0.08	0.00	0.00	8.71
	Gairloch, Sands Caravan Park	3.31	0.14	1.30	0.00	4.75
	Garve, Matheson Road	19.19	0.06	0.17	0.20	19.62
	Kinlochewe, Car Park, Public Toilets	16.83	0.15	0.64	0.69	18.31
	Kyle of Lochalsh, Coop	---	---	2.19	4.12	6.31
	Kyle of Lochalsh, Public Toilets Car Park	16.68	0.13	---	1.93	18.73
	Lochcarron, Council roads depot	18.14	0.16	3.67	2.70	24.67
	Marybank, Balloan House Hotel	3.30	0.00	0.00	0.32	3.61
	Plockton, Car Park	18.77	0.21	1.31	0.91	21.19
	Poolewe, Garage	14.79	0.11	0.97	1.12	16.98
	Shiel Bridge, Shop	9.61	0.09	1.07	0.22	10.98
	Shieldaig, Public Toilets	10.12	0.13	0.72	0.47	11.44
	Strathconon, Milton	2.45	0.06	0.51	0.00	3.01
Strathpeffer, Old Station Car Park	32.81	0.12	0.73	1.87	35.53	
Torrison, Loch Torrison Hotel	11.83	0.12	1.35	0.22	13.52	
Ullapool, Latheron Lane Car Park	69.38	0.39	6.58	4.25	80.60	
Wester Ross, Strathpeffer & Lochalsh Total		394.92	3.28	36.61	28.17	462.98
Wick	Wick, Co-op Angle Park	20.04	0.21	2.06	9.58	31.89
	Wick, Lidl	20.52	0.19	2.15	5.46	28.31
	Wick, Riverside Car Park	9.61	0.09	0.00	1.61	11.31
	Wick, Tesco	33.78	0.56	4.44	8.89	47.66
Wick Total		83.94	1.05	8.65	25.53	119.17
Grand Total		4893.01	34.01	435.64	502.13	5864.79

APPENDIX C - Recycling Centres (by site) / PÀIPÈAR-TAICE C – Ionadan Ath-chuirteachaidh (a rèir làrach)

Location	Year	Batteries - car	Batteries - Household	Bric a Brac	Card-board	Co-mingled	Furniture	Gas cylinder	Glass	Green waste	Hardcore	Metals	Oil	Oil filter	Paper	Plastic	Plaster board	Tetrapaks	Textiles	Tyres	WEEE - Cooling	WEEE - CRTs	WEEE - GDLs	WEEE - LDAs	WEEE -	Wood	Total Recycled	Residual	Recycling rate		
Achnagonalin	2011-2012	-	-	-	1	16	-	-	24	84	155	53	1	-	11	1	-	-	1	21	-	-	-	-	-	106	474	255	65.0%		
	2012-2013	-	0	-	-	12	-	-	16	53	122	51	2	-	4	0	-	-	1	-	-	-	-	-	-	81	342	203	62.7%		
	2013-2014	-	0	-	-	0	16	-	-	22	73	135	53	2	-	3	0	-	-	1	-	-	-	0	-	97	402	205	66.3%		
Alness	2011-2012	4	-	1	-	2	58	-	-	5	49	385	471	79	2	1	31	7	-	-	7	11	11	35	-	24	41	125	1,349	1,140	54.2%
	2012-2013	3	1	-	-	-	69	-	-	2	44	319	503	81	2	1	10	1	-	-	7	7	10	34	0	22	37	121	1,274	1,407	47.5%
	2013-2014	4	-	-	-	0	101	-	-	-	39	373	490	93	2	0	8	0	-	-	8	5	21	30	-	22	36	18	1,249	1,646	43.1%
Aviemore	2011-2012	-	0	-	-	1	38	-	1	2	53	78	243	81	1	0	27	2	-	2	4	2	22	26	0	20	9	160	773	377	67.2%
	2012-2013	2	0	-	-	-	29	-	3	2	41	60	207	74	1	0	14	0	-	2	4	8	21	25	-	32	14	158	697	337	67.4%
	2013-2014	2	1	-	-	0	33	-	6	-	42	82	204	92	1	0	10	0	20	2	3	13	28	25	1	40	20	190	813	325	71.5%
Bonar Bridge	2011-2012	-	-	-	-	-	-	-	-	-	84	-	-	-	-	-	-	-	-	-	1	3	4	-	6	3	-	101	432	19.0%	
	2012-2013	-	-	-	-	-	-	-	-	-	68	-	-	-	-	-	-	-	-	-	1	3	4	-	6	4	-	85	378	18.4%	
	2013-2014	-	-	-	-	-	-	-	-	-	75	-	-	-	-	-	-	-	-	-	2	4	4	-	7	4	-	96	338	22.2%	
Dingwall	2011-2012	4	1	7	-	4	107	-	16	5	80	792	689	104	2	1	58	14	53	3	20	14	30	59	-	66	65	382	2,575	900	74.1%
	2012-2013	5	1	7	-	-	66	-	19	5	72	797	672	121	3	1	29	2	57	5	21	15	30	53	1	67	62	466	2,577	1,002	72.0%
	2013-2014	5	1	-	-	1	70	-	13	2	58	923	588	137	2	0	16	2	75	7	25	16	36	51	0	69	63	338	2,496	1,195	67.6%

3

³ Aside from council serviced paper and can skips there was no reliable data for paper and can banks in 2012/2013

Location	Year	Batterie s - car	Batteries - Househol	Bric a Bikes	Card- brac	Co- Cans board	Co- mingled	Furniture	Gas cylinder	Green Glass	waste	Hardcore	Metals	Oil filter	Paper	Plastic	Plaster board	Tetrapaks	Textiles	Tyres	WEEE - Coolin	WEEE - CRTs	WEEE - GDLs	WEEE - LDAs	WEEE - SDAs	Wood	Total Recycle	Residual	Recyclin g rate		
Durness	2011-2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	1	-	2	1	-	7	201	3.4%	
	2012-2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	1	2	-	5	174	2.8%	
	2013-2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	1	1	-	4	215	1.9%	
Fort William	2011-2012	5	1	-	4	2	284	-	7	4	50	218	232	114	3	1	48	3	-	1	11	9	34	58	1	66	51	345	1,551	974	61.4%
	2012-2013	5	0	-	3	-	283	-	13	1	42	185	233	115	3	1	33	2	-	2	10	8	37	49	0	65	54	303	1,446	1,036	58.3%
	2013-2014	6	1	-	3	1	311	-	25	1	38	211	211	134	3	0	17	1	17	2	9	14	41	45	0	68	49	330	1,538	1,094	58.4%
Henderson Drive	2011-2012	11	2	-	-	11	427	-	33	8	143	1,900	4,306	327	12	0	109	64	-	-	37	32	124	223	1	239	208	987	9,205	4,268	68.3%
	2012-2013	7	2	-	-	-	311	-	43	11	136	1,388	3,804	408	10	1	-	4	-	-	38	40	120	196	1	246	234	1,247	8,249	5,058	62.0%
	2013-2014	6	2	-	-	1	338	-	55	6	128	1,041	5,119	363	11	0	-	2	273	-	41	40	137	179	1	231	237	1,490	9,702	5,091	65.6%
Kingussie	2011-2012	-	-	-	-	-	-	-	-	-	-	83	-	41	0	-	-	-	-	-	-	-	-	-	-	-	-	90	214	168	56.1%
	2012-2013	-	0	-	-	-	-	-	-	-	-	47	-	18	0	-	-	-	-	-	-	-	-	0	-	-	-	71	137	101	57.7%
	2013-2014	-	0	-	-	-	-	-	-	-	-	48	-	25	0	-	-	-	-	-	-	-	-	-	-	-	-	70	144	111	56.3%
Lairg	2011-2012	-	-	-	-	0	-	-	-	-	2	47	-	5	-	-	3	-	-	-	0	1	2	3	-	5	2	-	71	360	16.4%
	2012-2013	-	-	-	-	-	-	-	-	-	4	39	-	-	-	-	1	-	-	-	0	-	3	2	-	5	3	-	58	336	14.6%
	2013-2014	-	-	-	-	-	-	-	-	-	4	36	14	-	-	-	0	-	6	-	0	2	4	3	-	7	3	5	84	386	17.9%
Naim	2011-2012	-	0	-	-	3	79	-	5	1	76	563	433	88	2	-	42	4	21	2	7	4	22	41	0	35	27	337	1,792	649	73.4%
	2012-2013	-	0	-	-	-	62	-	6	2	67	663	468	94	3	-	21	1	33	3	13	10	25	33	0	26	30	452	2,014	709	74.0%
	2013-2014	-	0	-	-	1	54	-	8	5	68	682	488	102	2	0	11	0	36	4	15	10	20	29	0	35	27	463	2,062	681	75.2%
Portree	2011-2012	1	0	-	-	1	14	28	-	-	21	133	-	90	3	0	12	-	-	-	9	13	27	28	0	54	26	1	461	962	32.4%
	2012-2013	2	0	-	-	-	10	41	-	-	18	152	28	121	3	0	10	-	-	-	7	11	29	26	0	55	27	41	584	882	39.8%
	2013-2014	2	0	-	-	1	6	51	-	1	22	176	74	139	2	-	9	-	25	-	5	7	35	20	0	46	24	152	798	717	52.7%

Location	Year	Batteries - car	Batteries - Household	Brica Bikes	Brac	Cans	Card-board	Co-mingled	Furniture	Gas cylinder	Green Glass	Green waste	Hardcore	Metals	Oil filters	Paper	Plastic	Plaster board	Tetrapaks	Textiles	Tyres	WEEE - Coolin	WEEE - CRTs	WEEE - GDLs	WEEE - LDAs	WEEE - SDAs	WEEE - Wood	Total Recycle	Residual	Recyclin g rate	
Seater	2011-2012	-	-	-	-	0	6	-	-	1	1	-	-	16	2	-	1	-	-	-	-	2	4	-	4	3	-	39	220	15.0%	
	2012-2013	-	-	-	-	-	7	-	-	1	1	-	-	23	-	-	-	-	-	-	-	-	3	3	-	5	2	-	45	196	18.5%
	2013-2014	-	-	-	-	-	10	-	-	1	1	-	-	15	2	-	-	-	-	-	-	-	2	3	0	6	2	-	42	192	18.0%
Tain	2011-2012	2	0	3	-	2	68	-	-	2	55	183	650	70	2	0	16	5	-	-	10	7	14	30	-	24	28	105	1,276	820	60.9%
	2012-2013	3	0	5	-	-	49	-	-	1	51	143	422	72	2	1	-	0	-	-	10	4	13	25	0	32	30	78	942	742	55.9%
	2013-2014	3	1	2	-	0	68	-	-	1	43	177	429	76	2	0	1	1	29	-	9	6	16	24	0	33	29	19	970	860	53.0%
Thurso	2011-2012	-	-	-	9	1	66	-	9	2	34	201	538	130	4	-	13	2	-	1	9	13	26	47	0	42	43	73	1,264	984	56.2%
	2012-2013	-	0	-	8	-	67	-	11	1	31	185	495	128	2	-	19	0	-	0	16	8	26	41	0	38	49	58	1,184	988	54.5%
	2013-2014	-	0	-	7	0	63	-	10	2	30	213	559	141	4	-	14	1	46	1	15	10	28	31	1	47	39	71	1,335	970	57.9%
Wick	2011-2012	-	-	-	3	1	67	-	4	1	20	175	531	116	3	-	15	1	-	-	7	19	23	44	0	43	30	25	1,129	966	53.9%
	2012-2013	-	0	-	3	-	76	-	5	1	16	122	468	107	2	-	14	2	-	-	14	14	26	33	0	53	29	27	1,013	999	50.4%
	2013-2014	-	0	-	5	1	79	-	6	1	16	163	497	109	2	-	6	1	40	-	13	15	24	30	0	45	25	21	1,101	965	53.3%

APPENDIX D - Transfer Stations (by site) / PÀIPEAR-TAICE D – Stèiseanan Gluasaid (a rèir làrach)

Location	Year	Batteries - car	Batteries - Household	Bric a brac	Cans	Card-board	Co-mingled	Furniture	Gas cylinder	Green Glass	waste	Hardcore	Metals	Oil filter	Paper	Plastic	Plaster board	Tetrapaks	Textiles	Tyres	WEEE - Cooling	WEEE - CRTs	WEEE - GDLs	WEEE - SDA's	Wood	Total Recycled	Residual	Recyclin g rate		
Achuvoldrach	2011-2012	-	-	-	-	0	-	-	-	1	-	-	8	1	-	1	-	-	-	2	2	3	2	-	3	1	-	24	1,332	1.8%
	2012-2013	-	-	-	-	-	-	-	-	1	-	-	7	-	-	1	-	-	-	2	-	2	2	-	4	2	-	21	1,106	1.9%
	2013-2014	-	-	-	-	0	-	-	-	4	-	-	4	-	-	0	-	-	-	2	-	3	2	0	4	2	-	21	1,255	1.7%
Ardachu	2011-2012	1	-	1	-	0	-	-	-	9	302	-	30	1	0	3	-	-	-	-	12	16	22	0	28	13	-	438	4,182	9.5%
	2012-2013	-	-	1	-	-	-	-	-	18	215	-	40	0	0	1	-	-	-	-	9	14	19	0	27	15	-	360	3,755	8.7%
	2013-2014	-	-	3	-	0	-	-	-	20	194	54	42	1	-	1	-	-	-	-	12	14	15	0	25	12	12	406	3,637	10.0%
Gairloch	2011-2012	1	-	-	-	1	-	-	-	13	33	-	19	1	0	10	-	-	-	2	2	6	7	-	10	7	-	111	2,205	4.8%
	2012-2013	1	-	-	-	-	-	-	-	20	29	-	14	-	0	3	-	-	-	1	4	6	7	0	10	7	-	102	1,513	6.3%
	2013-2014	1	-	-	-	0	-	-	-	14	13	-	13	1	-	2	-	2	-	2	-	7	7	-	10	8	16	97	1,556	5.9%
Kilchoan	2011-2012	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	2	1	-	2	1	-	8	88	8.6%
	2012-2013	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1	-	3	2	-	8	79	9.0%
	2013-2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	2	-	6	100	5.7%
Torbreck	2011-2012	1	-	-	-	0	5	-	-	2	-	-	12	-	0	2	-	-	-	-	-	3	4	-	5	2	-	37	1,214	2.9%
	2012-2013	-	-	-	-	-	-	-	-	3	-	-	5	1	-	1	-	-	-	-	2	3	2	-	6	2	-	25	1,028	2.4%
	2013-2014	-	-	-	-	0	-	-	-	3	-	-	5	1	-	1	-	-	-	-	1	4	2	-	6	2	-	25	1,000	2.4%
Ullapool	2011-2012	2	-	-	-	0	5	-	-	27	157	51	24	-	0	7	-	-	-	2	-	5	7	-	10	6	73	378	1,382	21.5%
	2012-2013	1	-	-	-	-	-	-	-	38	73	40	26	1	0	2	-	-	-	1	-	5	6	0	11	5	48	258	1,093	19.1%
	2013-2014	2	-	-	-	0	-	-	-	36	77	96	22	1	0	2	-	13	-	1	5	5	5	-	11	6	23	303	1,151	20.9%

APPENDIX E – Glossary / PÀIPEAR-TAICE E - Beag-fhaclair

Term	Explanation
AWC	Alternate Weekly Collections – waste collections alternating between DMR and Residual waste at the kerbside i.e DMR one week and residual the next and so on.
Biodegradable waste	Any waste that is capable of undergoing anaerobic decomposition, such as food and garden waste, and paper and paperboard.
DMR	Dry mixed recycle – material currently collected in the blue kerbside recycling bins provided by The Council i.e. a mixture of paper, card, cans & plastic bottles.
EfW	Energy from Waste – a process of generating energy in the form of electricity and/or heat from the incineration of waste
Kg/hh/wk	Kilograms per household per week – a universal standard measure used to gauge performance of particularly kerbside collection schemes. Number of households refers to number offered the service rather than those participating.
IVC	In-Vessel Composting – a method of aerobic composting where air flow can be controlled and higher temperatures reached to kill pathogens and weed seeds.
MRF	Material recovery facility - a specialised plant that receives source segregated recyclable materials (such as co-mingled or DMR) in order to separate & prepare them for marketing to end-user manufacturers.
Kerbside	A regular collection of waste from customers.
Landfill	A method of waste management by burial. Sites need to be licenced by SEPA and engineered to standards which minimise the impacts on the environment.
RCV	Refuse Collection Vehicle – general reference for a four or six axle vehicle used to collect kerbside presented waste and recycling.
RDF	Consists largely of organic components of municipal waste (such as plastics and biodegradable waste). This can then be used in a variety of ways to generate electricity, most commonly as an additional fuel used with coal in power stations or in cement kilns.
Residual waste	Waste that is not prepared for reuse, recycled or composted.
Waste arisings	The amount of waste generated in a given locality over a period of time.
WasteDataFlow	The web based system for local authority collected municipal waste data reporting by UK local authorities to government (www.wastedataflow.org).
ZWS	Zero Waste Scotland – Scottish Government department which exists to push forward waste regulation in Scotland and assist in moving Scotland towards 'Zero Waste'