

# March 2019 Waste Metric Dashboard

Period 12 : 24th February to 31st March FY 18/19

## UK Waste Diversion

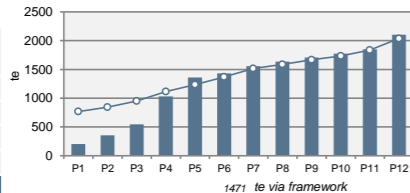
The National Waste Programme aims to communicate progress in the implementation of the Waste Hierarchy and the Nuclear Industry Strategy for Low Level Waste Management across the UK. This dashboard shows key metrics that demonstrate the successful diversion of waste away from direct disposal and the optimal use of key national assets, such as LLWR and waste treatment facilities on sites around the UK, typically based on delivery of Joint Waste Management Plans (JWMPs). The objective is to encourage transparency and communicate progress to all stakeholders.

## NDA Site Summary YTD

These graphs are a summary of the cumulative progress to date against the combined JWMP targets<sup>1</sup>. These numbers do not capture VLLW disposed of on site.

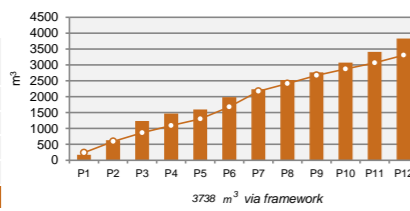
### Metallic Treatment:

	Yearly Target	Actual YTD
Sellafield Ltd	800	890
Magnox Ltd	1031	1077
LLWR Ltd	107	72
DSRL	100	65
<b>Total:</b>	<b>2038</b>	<b>2104</b>



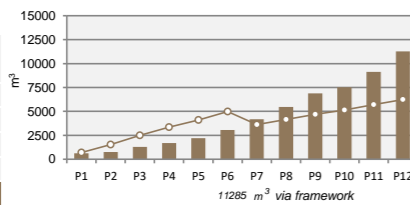
### Combustible Treatment:

	Yearly Target	Actual YTD
Sellafield Ltd	1800	2138
Magnox Ltd	1251	1439
LLWR Ltd	234	241
DSRL	24	16
<b>Total:</b>	<b>3309</b>	<b>3834</b>



### VLLW Disposal:

	Yearly Target	Actual YTD
Sellafield Ltd	600	722
Magnox Ltd	5639	10524
LLWR Ltd	20	39
DSRL	N/A	N/A
<b>Total:</b>	<b>6259</b>	<b>11285</b>

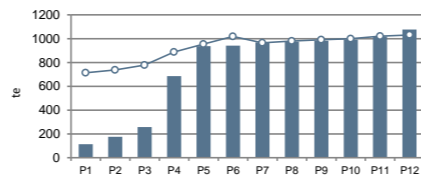


## Magnox Ltd

These graphs show the cumulative actual waste diverted by Magnox Ltd against their JWMP targets in the Year to Date (YTD).

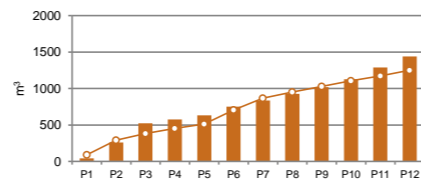
### Metallic Treatment:

	Yearly Target	Actual YTD
Onsite treatment	58	83
Via framework	491	498
Out of Scope	482	496
<b>Total:</b>	<b>1031</b>	<b>1077</b>



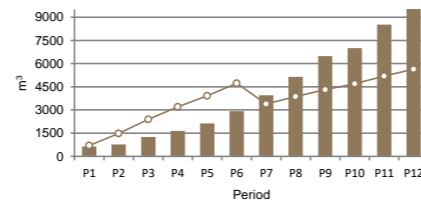
### Combustible Treatment:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	1155	1343
Out of Scope	96	96
<b>Total:</b>	<b>1251</b>	<b>1439</b>



### VLLW Disposal:

	Yearly Target	Actual YTD
Onsite disposal	0	0
Via framework	5639	10524
Out of Scope	0	0
<b>Total:</b>	<b>5639</b>	<b>10524</b>

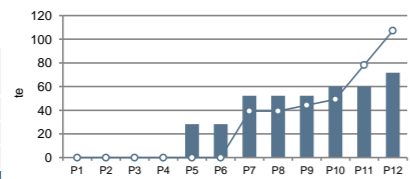


## LLWR Ltd

These graphs show the cumulative actual waste diverted by Low Level Waste Repository Ltd against their JWMP targets in the YTD.

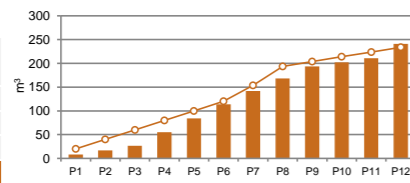
### Metallic Treatment:

	Yearly Target	Actual YTD
Onsite	0	0
Via framework	79	18
Out of Scope	28	54
<b>Total:</b>	<b>107</b>	<b>72</b>



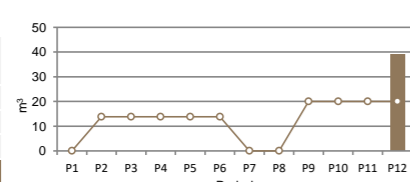
### Combustible Treatment:

	Yearly Target	Actual YTD
Onsite	0	0
Via framework	234	241
Out of Scope	0	0
<b>Total:</b>	<b>234</b>	<b>241</b>



### VLLW Disposal:

	Yearly Target	Actual YTD
Onsite	0	0
Via framework	20	39
Out of Scope	0	0
<b>Total:</b>	<b>20</b>	<b>39</b>

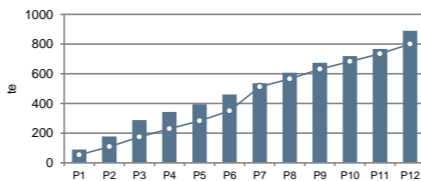


## Sellafield Ltd

These graphs show the cumulative actual waste diverted by Sellafield Ltd against their JWMP targets in the YTD.

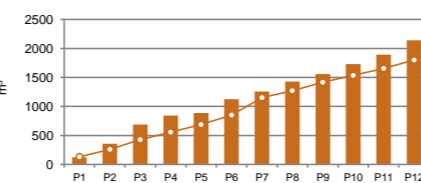
### Metallic Treatment:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	800	890
Out of Scope	0	0
<b>Total:</b>	<b>800</b>	<b>890</b>



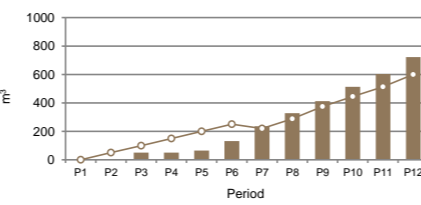
### Combustible Treatment:

	Yearly Target	Actual YTD
Onsite treatment	0	0
Via framework	1800	2138
Out of Scope	0	0
<b>Total:</b>	<b>1800</b>	<b>2138</b>

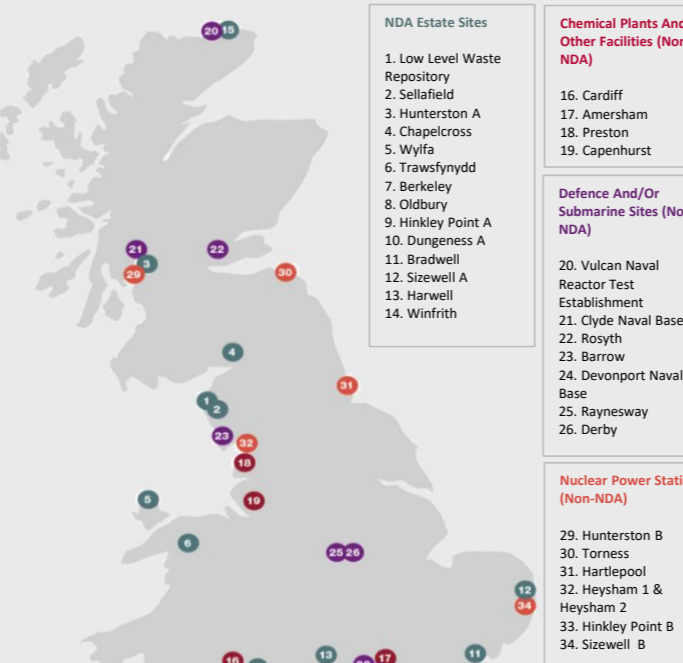
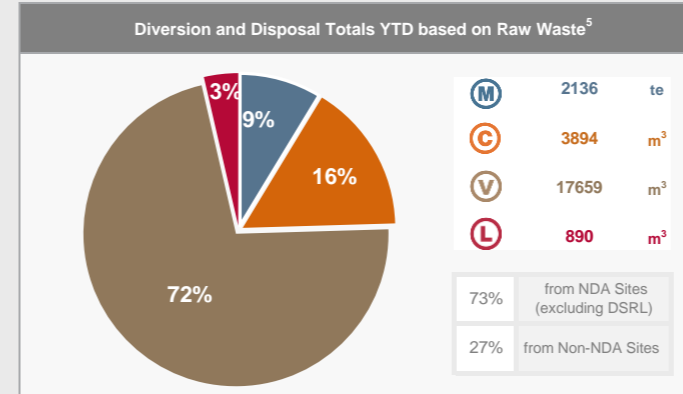


### VLLW Disposal:

	Yearly Target	Actual YTD
Onsite disposal	3600	2403
Via framework	600	722
Out of Scope	0	0
<b>Total:</b>	<b>600</b>	<b>722</b>



1 Actuals/Target YTD only applies to VLLW via the framework

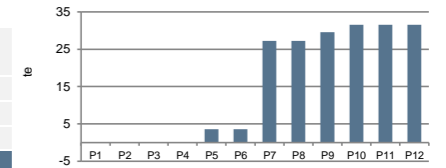


## Non-NDA Site Summary YTD

These graphs are a summary of the cumulative diversions to date from Non NDA sites.

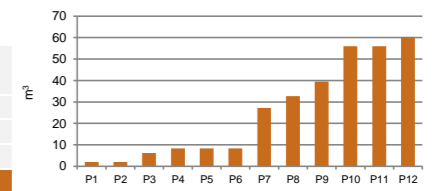
### Metallic Treatment:

	Yearly Forecast	Actual YTD
Onsite treatment	N/A	0
Via framework	N/A	32
Out of Scope	N/A	0
<b>Total:</b>	<b>N/A</b>	<b>32</b>



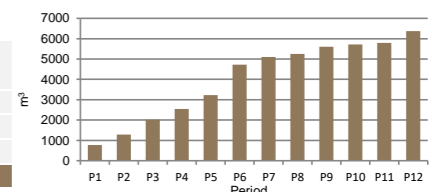
### Combustible Treatment:

	Yearly Forecast	Actual YTD
Onsite treatment	N/A	13
Via framework	N/A	8
Out of Scope	N/A	0
<b>Total:</b>	<b>N/A</b>	<b>21</b>



### VLLW Disposal:

	Yearly Forecast	Actual YTD
Onsite disposal	N/A	0
Via framework	N/A	6374
Out of Scope	N/A	0
<b>Total:</b>	<b>N/A</b>	<b>6374</b>



## Non-NDA Sites (YTD)<sup>3</sup>

This table shows the cumulative actual waste diverted\*\*\* by non-NDA sites in the YTD

Non-NDA Sites	M (te)	C (m <sup>3</sup> )	V (m <sup>3</sup> )
Cyclife <sup>2</sup>	0	0	249
AWE Aldermaston	26	3	40
EDF Energy	0	0	0
URENCO UK	0	0	432
Tradebe Inutec Ltd	0	0	30
URENCO Nuclear Stewardship	4	39	5275
Unitech	0	0	0
Other	2	18	348



## ILW → LLW Re-Classification

This table shows the actual volume of waste re-classified from ILW to LLW in the YTD.

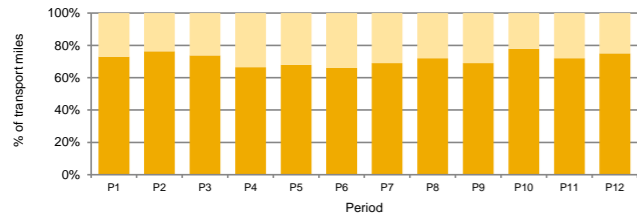
SLC	Actual Volume Re-Classified YTD (m <sup>3</sup> )
Magnox Ltd	-
Sellafield Ltd	90
LLW Repository Ltd	-
DSRL	-
Non-NDA	-
<b>Total</b>	<b>90</b>

Values above include material diverted through direct contracts.

### Transport and Packaging

#### Utilisation of Transport Fleet

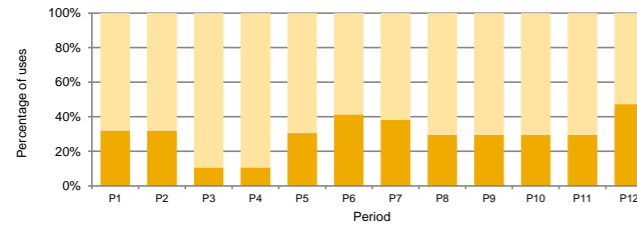
This graph gives the relative percentage for empty miles (miles transporting empty containers) and utilised miles (miles transporting containers holding waste). A high utilisation % shows transport assets being used effectively.



	YTD Miles	YTD Average
Empty Journeys	248,454	72%
Utilised Journeys	99,729	28%

#### Package Re-use

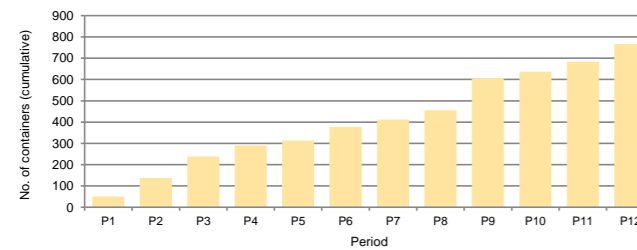
This graph shows, of the total number of containers transported, the percentage of packages that were a re-used container. A high re-use % shows transport assets being used effectively.



	YTD (no.)	YTD Average
Single / first use container	868	30%
Re-used container	1884	70%

#### Road vs. Rail Transports

This graph shows of the total number of containers transported, which were by rail and which were by road. This includes rail shipments from Sellafield to LLWR.



	% Container No.s	% Container Miles
Road containers	0%	0%
Rail containers	100%	100%

### LLW Disposals and LLWR Vault Capacity

#### LLW Disposals

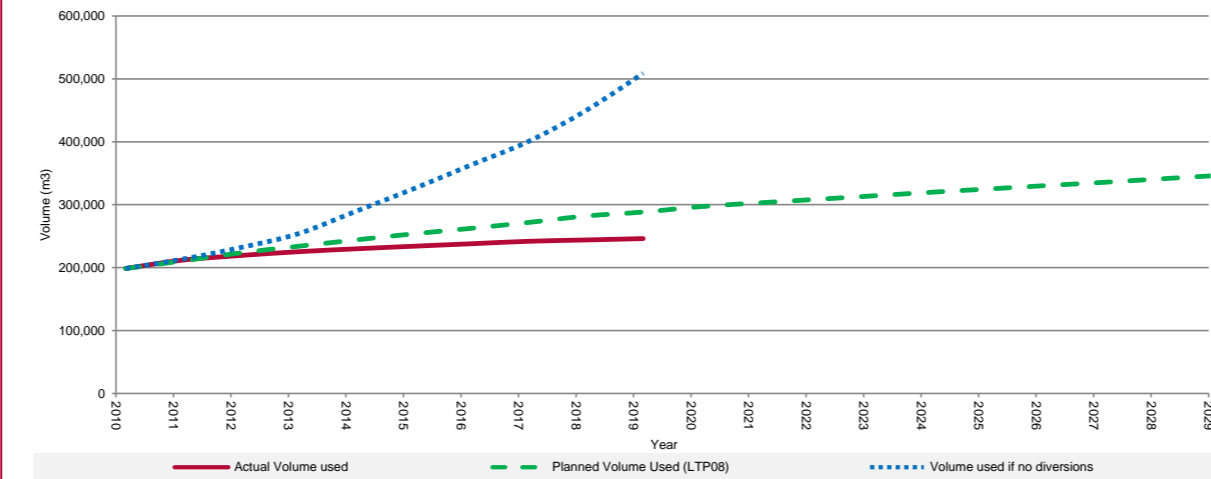
This table gives the number of LLW containers disposed of as LLW in the YTD.

Site(s)	No. of Containers sent for LLWR Disposal in the YTD												Total
	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Period 11	Period 12	
<b>NDA</b>													
Sellafield Ltd	0	11	0	10	10	7	14	5	10	5	0	5	77
Magnox Ltd	0	0	0	0	0	1	0	1	0	0	2	2	6
LLWR Ltd	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyclife	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Non-NDA</b>													
AWE Aldermaston	0	0	0	0	0	0	0	0	0	0	0	0	0
EDF Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
Urenco UK	0	0	0	0	0	0	0	0	0	0	0	0	0
Tradebe Inutec Ltd	0	1	0	0	0	0	0	0	3	0	3	3	10
Urenco Nuclear Stewardship	0	0	0	0	0	0	0	0	0	0	0	0	0
Unitech	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	1	0	1	0	0	0	0	0	0	0	2
<b>TOTAL</b>	<b>0</b>	<b>12</b>	<b>1</b>	<b>10</b>	<b>11</b>	<b>8</b>	<b>14</b>	<b>6</b>	<b>13</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>95</b>

Dounreay Vaults	No. of Containers disposed of at Dounreay in the YTD												Total
	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Period 11	Period 12	
Dounreay - Main Vault	0	0	0	0	0	0	0	0	0	0	0	4	4
Dounreay - Demolition Vault	0	0	0	0	0	0	0	0	0	0	0	0	0

#### Total Impact of Diversions on LLWR Site

This graph compares the actual site capacity used, against the planned capacity according to Life Time Plan (LTP) 08, and the capacity that would have been used if no treatment options were utilised. Actual disposals are based on the number of containers received by LLWR per year. To convert between raw volume and container number it has been assumed that one container takes up 22.8m<sup>3</sup> of vault space. For metallic wastes it has been assumed that 10te is contained within a HHISO. This graph starts in April 2010 when the new LLWR waste services contract was introduced. Up to this point 266,180m<sup>3</sup> of waste had been consigned to LLWR for disposal. For the purpose of this graph these values assume no secondary waste is received by LLWR from treatment providers.



Total volume saved by diversions: **262,789 m<sup>3</sup>**

Total no. of equivalent HHISO containers saved by diversion: **11,526**

### Usage of Waste Routes

#### Route Status

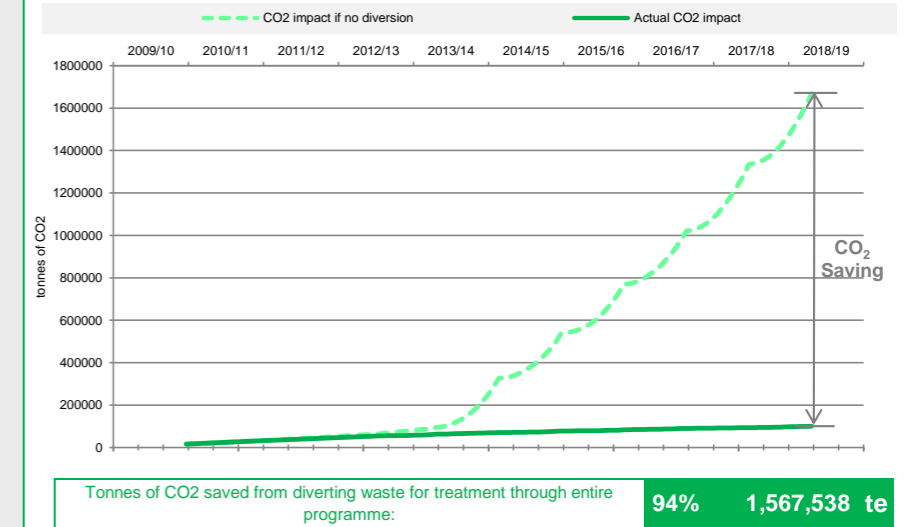
This table shows the routes available to each of the sites, which have been utilised and which are yet to be utilised. This date is reflective of waste route usage from 2008 to the YTD.

SLC	Site	M	C	V	L
LLWR	LLWR	●	●	●	●
DSRL	Dounreay	●	●	●	●
Sellafield Ltd	Sellafield	●	●	●	●
Magnox Ltd	Berkeley	●	●	●	●
	Bradwell	●	●	●	●
	Chapelcross	●	●	●	●
	Dungeness A	●	●	●	●
	Hinkley Point A	●	●	●	●
	Hunterston A	●	●	●	●
	Oldbury	●	●	●	●
	Sizewell A	●	●	●	●
	Trawsfynydd	●	●	●	●
	Wylfa	●	●	●	●
EDF - Energy	Dungeness B	●	●	●	●
	Hartlepool	●	●	●	●
	Heysham 1	●	●	●	●
	Heysham 2	●	●	●	●
	Hinkley Point B	●	●	●	●
	Hunterston B	●	●	●	●
	Sizewell	●	●	●	●
	Tomess	●	●	●	●
	RRSL	●	●	●	●
	HMNB Rosyth	●	●	●	●
MoD Sites	HMNB Devonport	●	●	●	●
	HMNB Clyde	●	●	●	●
	AWE Aldermaston	●	●	●	●
	Barrow	●	●	●	●
	Eskmeals	●	●	●	●
	Urenco UK Ltd	●	●	●	●
	Capenhurst Nuclear Services (CNS)	●	●	●	●
GE Healthcare Ltd Amersham	●	●	●	●	
UKAEA Culham JET Site	●	●	●	●	
Medical Research Council	●	●	●	●	

Key: ● Route not open, ● Route in use, ● Route available, ✕ Recent status change

### Environment

#### Environmental Impact

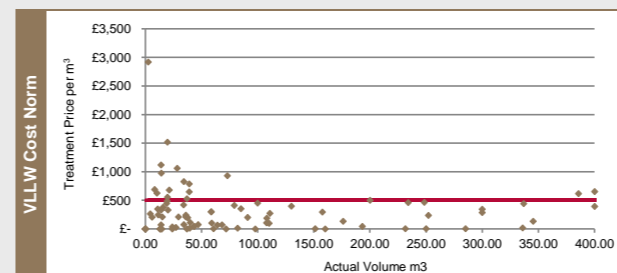
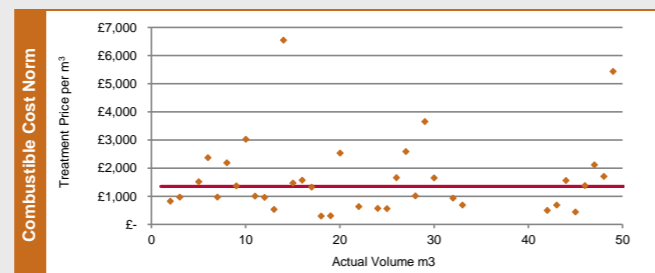
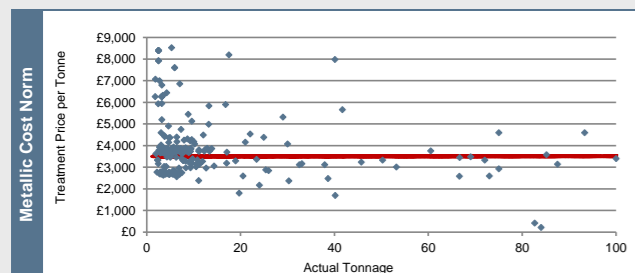


Tonnes of CO2 saved from diverting waste for treatment through entire programme: **94% 1,567,538 te**

### Cost Norms

The three graphs below show the cost norms with the actual price per contract for comparison.

Key: — Cost Norm, ● Actual Price



#### Dashboard Commentary:

#### Notes:

- 1 - Diversion totals from Non-NDA include framework and non framework consignments.
- 2 - Metallic Waste (te) to (m³) Conversion: 1.00 te/m³ (assuming 10te per HHISO)
- 3 - for Non-NDA sites, "zero" diversion may either reflect no diversion or diversion via direct contracts or onsite treatment which is not reported to LLWR at this time
- 4 - Non-NDA Combustible table does not include consignments treated via direct contracts
- 5 - The 15 LLW Disposal containers received since August 2018 from Sellafield Ltd were WAGR Boxes, rather than standard HHISOs. These contain 40% less waste volume than a HHISO, and this is represented in the Diversion / Disposal data Pie Chart. These containers are also detailed in the LLW disposals table and ILW-LLW reclassification table.
- 6 - Actuals/Target YTD only applies to VLLW via the framework