



## **Notes on the methodology of special waste statistics from 2006 onwards**

### **1. Compilation of the data**

Until 2005 all disposal facilities were asked to report the assumed amount of special waste received each quarter on a form to be submitted to the responsible cantonal and federal authorities (List of Assumed Special Waste, LAS). Since the Ordinance on the Movement of Wastes (OMW) came into force on 1 January 2006, the quantities of waste received have been recorded electronically by the disposal companies on veva-online.ch.

The data on exported waste is based on the shipping forms which the exporter submits to the Swiss Customs Office. This data is captured by the FOEN on veva-online.ch. A first evaluation of the data for the year 2006 has shown that insufficient shipping forms were returned. Therefore no data will be published for the year 2006 on the subject of exported waste. Since 2007 a slightly altered administrative procedure has become accepted and sufficient forms have been returned.

### **2. Review of the data**

Before veva-online.ch was introduced, the FOEN verified the information from individual companies on the basis of industry knowledge. Missing data was asked for and erroneous information corrected. Nowadays the cantons check the completeness and accuracy of the declarations with the aid of veva-online. For example, the reported disposal procedure is compared with that given on the disposal licence.

### **3. Calculation of the quantity of special waste accumulated in Switzerland**

The data available on veva-online represents the special waste, treated either in Switzerland or in other countries, originating in Switzerland. If waste is forwarded without treatment or is part treated in several plants, these quantities are recorded several times. The actual quantity of special waste originating in Switzerland is calculated in two stages:

#### **3.1. Interim storage and forwarding**

Entries with disposal procedures D151, D152, R151 or R152 are removed because the same waste is recorded again at the next treatment stage. Only the actual treatment of the waste after forwarding is taken into account.

### 3.2. Partial treatment in several facilities

During chemical-physical treatment or in procedures for the recycling of special waste, products or other waste or else other special waste can be produced. In measuring the amount of actually treated waste only the partial amount that occurs as a product or as other waste has to be counted. The partial amount that is special waste will be counted again at the following treatment stage.

Examples:

- When emulsions are separated out, a watery part is formed that is poured into the drains and an oily part that is thermally treated in another facility as special waste.
- When polluted excavation material is treated by soil washing, an amount of gravel is produced that can be used in the construction industry. The fine elements are deposited on a bioreactor landfill as special waste.

The following inclusive factors were used to determine the amount actually treated:

#### 106 Other technical oils

	CP/biological treatment	Recycling
12 01 08	95%	95%
12 01 09	95%	95%

	CP/biological treatment	Recycling
12 01 19	95%	95%

#### 109 Emulsions

	CP/biological treatment	Recycling
12 03 01	95%	95%
12 03 02	95%	95%
13 01 04	95%	95%
13 01 05	95%	95%
13 04 01	95%	95%
13 04 02	95%	95%
10 04 03	95%	95%

	CP/biological treatment	Recycling
13 05 05	95%	95%
13 08 01	95%	95%
13 08 02	95%	95%
19 02 07	95%	95%
10 08 10	95%	95%
19 11 03	95%	95%
20 01 96	95%	95%

#### 114 Adhesive and sealant waste

	CP/biological treatment	Recycling
08 04 13	90%	90%
08 04 12	90%	90%

	CP/biological treatment	Recycling
08 04 15	90%	90%
08 04 16	90%	90%

#### 404 Excavated material

	CP/biological treatment	Recycling
17 05 03	60%	60%
17 05 05	60%	60%

	CP/biological treatment	Recycling
17 05 07	60%	60%

#### 701 Oil-containing sludges

	CP/biological treatment	Recycling
13 05 01	80%	80%
13 05 02	80%	80%

	CP/biological treatment	Recycling
13 05 08	80%	80%

**702 Street gully sludges**

	CP/biological treatment	Recycling
20 03 06	50%	75%

**708 Sludges and industrial effluents**

	CP/biological treatment	Recycling
10 11 19	70%	70%
16 07 09	70%	70%
16 10 01	70%	70%
16 10 03	70%	70%

	CP/biological treatment	Recycling
11 02 07	70%	70%
19 07 02	70%	70%
19 13 07	70%	70%

**716 Flue gas cleaning sediment**

	CP/biological treatment	Recycling
10 01 18	0%	100%
10 02 07	0%	100%
10 02 13	0%	100%
10 03 19	0%	100%
10 03 23	0%	100%
10 03 25	0%	100%
10 04 04	0%	100%
10 04 06	0%	100%
10 04 07	0%	100%
10 05 03	0%	100%
10 05 05	0%	100%
10 05 06	0%	100%
10 06 03	0%	100%
10 06 06	0%	100%

	CP/biological treatment	Recycling
10 06 07	0%	100%
10 08 15	0%	100%
10 08 17	0%	100%
10 09 09	0%	100%
10 10 09	0%	100%
10 11 15	0%	100%
10 11 17	0%	100%
10 12 09	0%	100%
10 13 12	0%	100%
10 14 01	0%	100%
11 05 03	0%	100%
19 01 05	0%	100%
19 01 07	0%	100%
19 04 02	0%	100%

**718 Problematic ashes and slag**

	CP/biological treatment	Recycling
10 01 14	0%	100%
10 01 16	0%	100%
10 02 98	0%	100%
10 03 04	0%	100%
10 03 09	0%	100%
10 03 15	0%	100%
10 03 21	0%	100%
10 03 29	0%	100%
10 04 01	0%	100%
10 04 02	0%	100%
10 04 05	0%	100%

	CP/biological treatment	Recycling
10 05 10	0%	100%
10 08 08	0%	100%
10 08 10	0%	100%
10 09 11	0%	100%
10 10 11	0%	100%
19 01 11	0%	100%
19 01 13	0%	100%
19 01 14	0%	100%
19 01 15	0%	100%
19 01 17	0%	100%
19 01 98	0%	100%

#### 4. Grouping of waste types and disposal procedures

Waste types and disposal procedures are grouped to show the summary of special waste statistics.

The waste groups that have been used up to now cannot be used any longer because a direct assignment of the VVS to the LVA codes is not possible. Therefore the existing groups from the website [abfall.ch](http://www.abfall.ch) have been used to group the waste types. ([http://www.abfall.ch/Informationen\\_Merkblaetter/pdf/EWW\\_VeVA\\_d.pdf](http://www.abfall.ch/Informationen_Merkblaetter/pdf/EWW_VeVA_d.pdf)).

The disposal procedures are grouped under four headings as before:

<b>Disposal procedures</b>	<b>Code</b>
Landfill	D1, D2, D5, D12, D13
Incineration	D10, D101-104, R1, R101, R103, R104
Chemical-physical/ biological treatment	D8, D9, D153, D160
Recycling	R2-R13, R153, R160

#### 5. Comparability of the special waste statistics up to 2005 and from 2006

Comparison of the special waste statistics from the periods before 2005 and from 2006 onwards can only be achieved to a limited extent, because of new systems and changes to the compilation and preparation of the data.