

## Site (Data) : ZWILAG

Stock of waste as at December 2010

Country: SWITZERLAND

Reporting Year: 2010

Site Name: ZWILAG

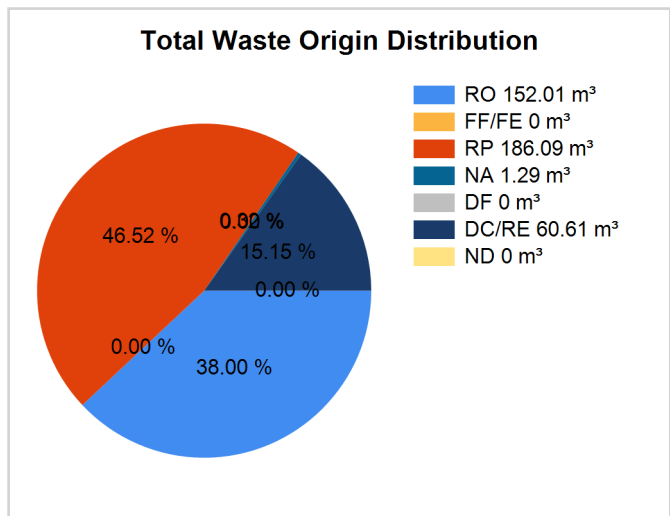
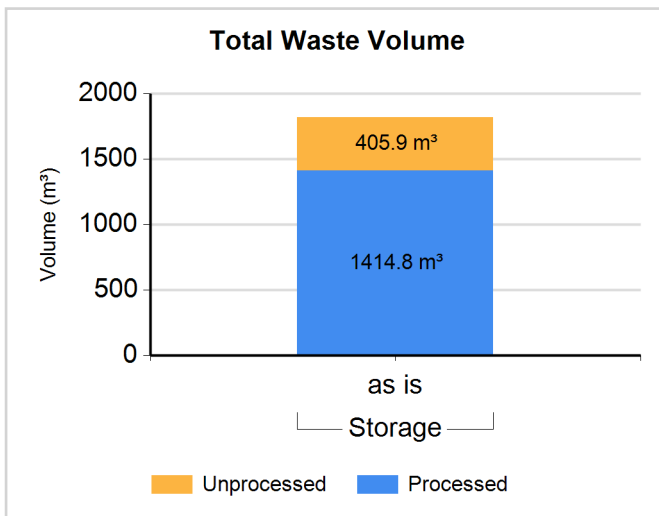
Full Name: Zentrales Zwischenlager Würenlingen

Inventory Reporting Date: December 2010

Waste Matrix Used: KEV 2004

## Waste Inventory

Est=distribution is an estimate, Proc.=Is the waste processed (Yes/No)? RO=Reactor Operations, FF/FE=Fuel Fabrication/Fuel Enrichment, RP=Reprocessing, NA=Nuclear Applications,DF=Defence, DC/RE=Decommissioning/Remediation, ND=Not Determined



Note: where volume "as dispo" is provided, volume "as is" is used in the graph instead.

## Waste Class: SMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
SMA	Storage	Y	N	1342.200	1342.200	98.67	0.00	0.00	0.32	0.00	1.01	0.00

## Waste Class: ATA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
ATA	Storage	Y	N	32.300	32.300	0.00	0.00	86.09	0.00	0.00	13.91	0.00

## Waste Class: HAA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
HAA	Storage	Y	N	40.300	40.300	0.00	0.00	100.00	0.00	0.00	0.00	0.00

## Waste Class: SMA ybc

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
SMA ybc	Storage	N	N	405.900	405.900	53.34	0.00	0.00	0.97	0.00	45.69	0.00

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**Processing - Treatment method(s)**

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Decontamination	N	N	Same	N
Incineration	N	N	Same	N
Metal Melting	N	N	Same	N
Super Compaction	N	Y		N

**Processing - Conditioning method(s)**

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Casting (of metal and slag)	N	N	Same	N
Cementation	N	N	Increase	N
Grouting	N	N	Increase	N

Comment **# 9721: ZWILAG Plasma Arc Incinerator/Melter**

Facility designed to incinerate/decompose/melt mixed waste (organics, metals, inorganics) fed in drums by very high temperature treatment.. Primary process residues are molten slag (non-metallic residues immersed into molten glass) and molten metals. These are casted into 145 l moulds. After waste product solidification by cooling, the moulds are overpacked in 200 l drums. Active commissioning of the facility has started in November 2004. Until the end of 2008, 587 drums have been produced within 9 test campaigns. Definitive license for facility operation was given by ENSI in September 2009.

**RadioNuclide Inventory in Storage**

Total Alpha Activity (GBq):	38000000
Total Beta/Gamma Activity (GBq):	3000000000

Comment **# 22630: Scope of Nuclide Inventory Data**

Reported overall activities refer to processed (i.e. conditioned) waste, only, and relate to the reference date of the submission. Information on unprocessed (i.e. yet-to-be conditioned) waste is excluded as pertinent provisional data are, frequently, assessed, reviewed or completed during the conditioning process.