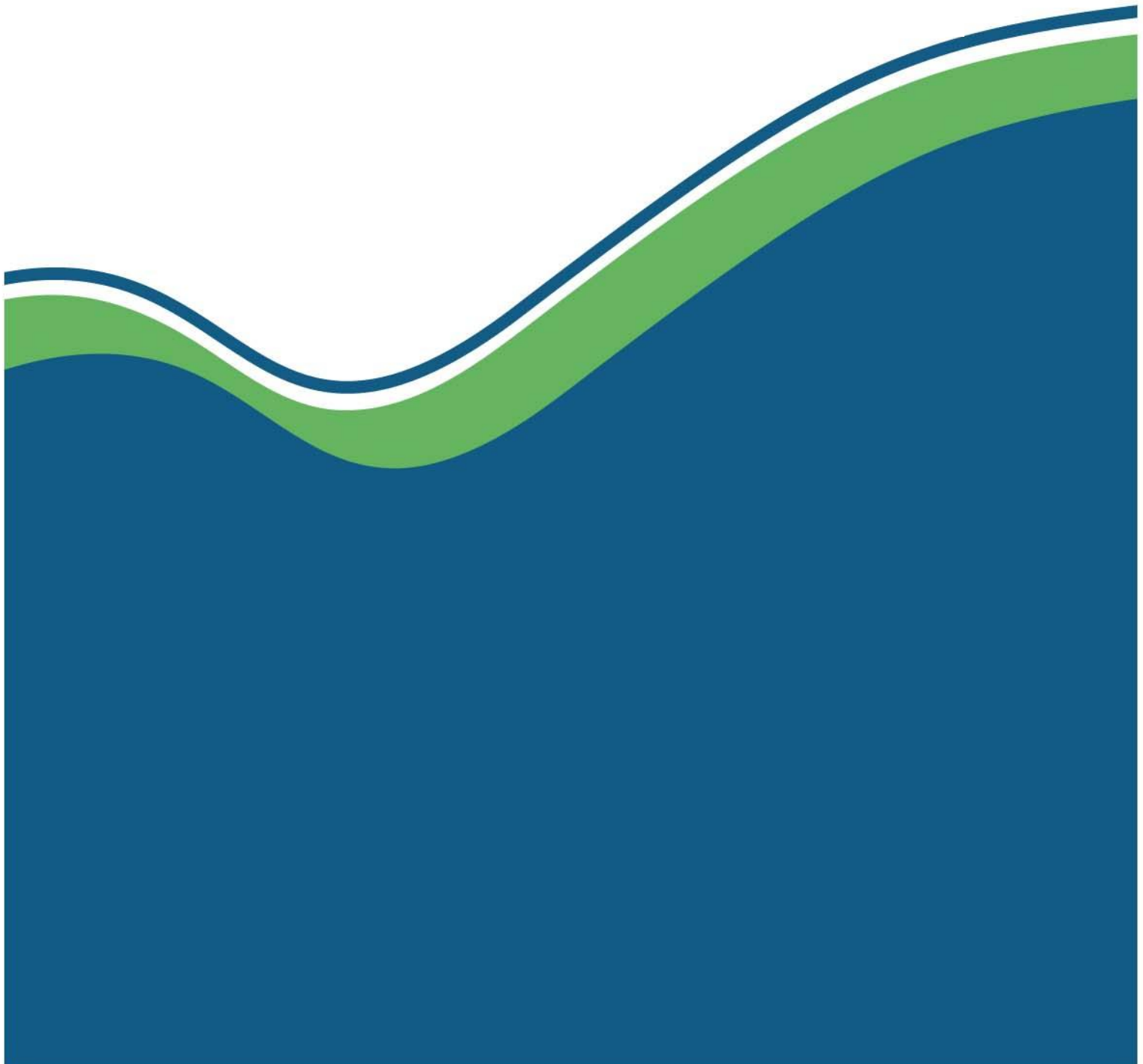




Landfill sites and capacity report for Scotland 2010



Landfill Sites and Capacity Report for Scotland, 2010

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1. Introduction

This paper presents the total estimated remaining capacity for the disposal of waste to landfill in Scotland as at 31 December 2010. It presents the numbers and capacities of all landfill sites authorised¹ by the Scottish Environment Protection Agency (SEPA) and either active (landfilling waste) or non-active (not landfilling waste) in calendar year 2010. The tonnages of waste landfilled in Scotland in 2010 are also presented.

This paper is intended as a snapshot of available capacity as at 31 December 2010 and does not attempt to project future trends in disposal, nor assess the potential impact of any changes in waste management practice or policy that may affect future capacity.

Detailed site by site information is available from the landfill sites and capacity spreadsheet 2010 that accompanies this report:

www.sepa.org.uk/waste/waste_data/waste_site_information/landfill_sites_capacity.aspx

Information on all licensed and permitted waste management facilities in Scotland is available in the waste sites and capacity spreadsheet 2010:

http://www.sepa.org.uk/waste/waste_data/site_capacity_infrastructure/national_capacity_reports.aspx

Maps based on the landfill sites and capacity spreadsheet 2010 showing landfill sites at a national and local authority level are available here:

http://www.sepa.org.uk/waste/waste_infrastructure_maps.aspx

Waste data information is available on SEPA's website:

http://www.sepa.org.uk/waste/waste_data.aspx

¹ Through the Waste Management Licensing, (WML) or Pollution Prevention & Control, (PPC) regimes

2. Number and types of landfills in Scotland in 2010 with remaining capacities

Under the Landfill Regulations (Scotland) 2003, all landfill sites are required to be classified as hazardous, non-hazardous or inert². Table 1 shows the total number and remaining capacity for each type of authorised landfill in Scotland for both active and non-active sites.

Table 1: Numbers, types and remaining capacities of authorised landfill sites in Scotland as at 31 December 2010

Type of landfill	Active in 2010		Not active in 2010		Total	
	Number	Remaining capacity (tonnes)*	Number	Remaining capacity (tonnes)*	Number	Remaining capacity (tonnes)*
Inert	19	7,497,135	4	6,112,000	23	13,609,135
Non-hazardous	46	61,453,485	2 [†]	2,523,612	48	63,977,097
Hazardous	1	384,334	0	-	1	384,334
Total	66	69,334,954	6	8,635,612	72	77,970,566

*For some sites, remaining capacity figures have not been reported by site operators or are irrelevant due to sites entering the restoration phase. These sites are indicated by an asterisk next to their licence or permit number in Appendices 1-3

3. Remaining capacities and tonnage of inert and non-hazardous waste landfilled in Scotland in 2010

In order for remaining landfill capacity figures to be meaningful, a comparison should be made with the quantity of waste landfilled. Table 2 compares remaining landfill capacity with the quantity of waste landfilled at active and non-active authorised landfills in each local authority area for the calendar year 2010. Hazardous waste is considered in the next section.

² Refer to Landfill Type information in Appendix 4

Table 2: Inert and non-hazardous waste landfilled during 2010 and remaining landfill capacity at 31 December 2010 in Scotland by local authority

Local authority	Waste landfilled at inert landfills[†] (tonnes)	Inert landfill remaining capacity* (tonnes)	Waste landfilled at non-hazardous landfills[†] (tonnes)	Non hazardous landfill remaining capacity* (tonnes)
Aberdeen			113,513	6,000
Aberdeenshire	26,077	2,524,156	270,386	6,645,349
Angus	7,691	1,647,199	41,183	835,736
Argyll and Bute	-		16,627	1,006,611
Clackmannanshire	-		-	-
Dumfries and Galloway	5,222	-	20,261	1,071,063
Dundee	-	-	-	-
East Ayrshire	-	-	80,336	-
East Dunbartonshire	-	-	-	-
East Lothian	23,128	122,000	441,478	15,662,996
East Renfrewshire	-	-	9,491	340,889
Edinburgh	-	-	-	-
Eilean Siar	-	-	20,712	1,432,000
Falkirk	-	-	560,103	3,432,985
Fife	-	-	584,407	4,714,965
Glasgow	-	-	70,508	1,440,324
Highland	616	82,100	42,833	1,001,600
Inverclyde	-	-	-	-
Midlothian	-	-	99,722	1,672,778
Moray	-	-	54,342	800,000
North Ayrshire	-	1,400,000	68,162	740,000
North Lanarkshire	-	4,712,000	362,694	14,263,822
Orkney	3,845	146,843	-	-
Perth and Kinross	614	104,000	128,889	1,200,000
Renfrewshire	-	-	25,353	400,000
Scottish Borders	11,882	107,170	54,157	774,729
Shetland Islands	-	-	9,498	890,000
South Ayrshire	-	-	95,524	565,000
South Lanarkshire	79,245	1,500,000	648,629	1,620,250
Stirling	76,234	773,667	0	-
West Dunbartonshire	77,374	380,000	132,691	2,310,000
West Lothian	6,422	110,000	91,952	1,150,000
Scotland	318,350	13,609,135	4,043,451	63,977,097

* For some sites, remaining capacity figures have not been reported by site operators or are irrelevant due to sites entering the restoration phase. These sites are indicated by an asterisk next to their licence or permit number in Appendices 1 and 2

[†]The tonnages given for waste landfilled at inert and non-hazardous landfills do not include restoration materials.

4. Remaining capacity and tonnage of hazardous waste landfilled in Scotland in 2010

Avondale hazardous landfill in Falkirk (PPC/E/0020086) is the only site in Scotland specifically permitted to accept hazardous waste. Some 12,470 tonnes of waste were landfilled at this site in calendar year 2010 and the remaining capacity as at 31 December 2010 was 384,334 tonnes.

In addition, 16 non-hazardous sites across Scotland are permitted to accept bonded asbestos waste, as stable non-reactive hazardous waste³, consigned in a separate cell. These are identified under the 'stable non-reactive hazardous waste cell' column in Appendix 2.

5. Data sources and limitations

The data in this paper are extracted from SEPA's public register of licensed/permitted sites and from information supplied by landfill site operators. Site operators are required to make returns to SEPA detailing the types and quantities of waste landfilled at their site. The data are reported to SEPA on a quarterly basis using the licensed/permitted site return form from sites holding a waste management licence (WML) or relevant Pollution Prevention and Control (PPC) permit. Although checks are made, SEPA cannot be held responsible for any errors contained within the data nor for commercial decisions by operators on whether or not to fill an authorised void.

The regulation of landfills under SEPA's powers currently falls between the WML and PPC regimes. Only a few of the landfills listed in Appendices 1-3 continue to be regulated under the WML regime while they complete their applications or have PPC permits pending.

No data is presented here for sites which have planning permission but have not yet applied for, or been issued with, a permit by SEPA.

Landfills can accept waste from within the local authority boundaries and from all over Scotland and beyond, so waste landfilled within any given local authority area does not necessarily correspond to the waste produced within that area.

Any minor differences in the tonnage totals within and between this report and the accompanying spreadsheet are due to rounding errors.

³ Refer to Landfill Type information note, Appendix 5

Appendix 1: Inert Landfill Summary as at 31st December 2010

Sites marked with an asterisk indicate either that the remaining capacity has not been reported by the site operator, or is irrelevant due to the site entering the restoration phase.

Local authority	Licence/Permit number	Site name	Operator organisation	2010 total landfilled (tonnes)	Remaining capacity as at 31/12/10 (tonnes)	Comments
Aberdeenshire	PPC/A/1008691	Loch Hills Quarry, Parkhill, Dyce, Aberdeen	Joss (Aberdeen) Limited	4,820	1,454,833	
Aberdeenshire	PPC/A/1008856	Park Quarry, South Deeside Road, Aberdeen	Chap Quarries (Aberdeen) Ltd	7,276	970,000	
Aberdeenshire	PPC/A/1008883	A & M Smith, Bankhead, Portlethen	A & M Smith Skiphire Limited	13,981	99,323	
Aberdeenshire	PPC/N/0020012*	Bodychell Sand & Gravel, Memsie, Fraserburgh	Bodychell Sand & Gravel Ltd	0	0	Not active in 2010
Angus	PPC/A/1008876*	D Geddes Ltd, Border Quarry LF, Friockheim	D Geddes (Contractors) Ltd	0	350,000	
Angus	PPC/A/1008878	D Geddes Ltd, Ardownie Landfill, Monifieth	D Geddes (Contractors) Ltd	4,944	1,188,706	
Angus	PPC/A/1008879	D Geddes (Con) Ltd, Prettycur Landfill, Forfar	D Geddes (Contractors) Ltd	2,587	14,463	
Angus	PPC/A/1008926	Tayside Contracts, Bolshan Quarry LF, Friockheim	Tayside Contracts	160	94,030	
Angus	PPC/A/1009964*	Hatton Mill Landfill site	Geddes Group Limited	0	0	Not active in 2010
Dumfries & Galloway	WML/W/0000211*	Townhead Farm, Collin	Dundas Chemical Co (Mosspark) Ltd	5,222	0	
East Lothian	PPC/A/1003207	West Fortune Transfer Station & Landfill	J Haig Hamilton & Sons	23,128	122,000	

Local authority	Licence/Permit number	Site name	Operator organisation	2010 total landfilled (tonnes)	Remaining capacity as at 31/12/10 (tonnes)	Comments
Highland	PPC/A/1024099	Skitten Quarry, Wick	John Gunn & Sons	616	82,100	
North Ayrshire	PPC/A/1038336	Old Mill Quarry, Beith	Wm Tracey Ltd	0	1,400,000	Not active in 2010
North Lanarkshire	PPC/A/1035042	Mossband Farm Landfill & Materials Recovery	TOM Waste Solutions Ltd	0	4,712,000	Not active in 2010
Orkney	PPC/A/1010715	OIC Bossack Landfill, Bossack, Orkney	Orkney Islands Council	948	96,110	
Orkney	PPC/A/1027001	Kingsdale Landfill, Firth Orkney	Orkney Islands Council	2,897	50,733	
Perth & Kinross	PPC/E/0020049	W B Grieve Groundworks	W B Grieve Groundworks	614	104,000	
Scottish Borders	PPC/A/1008881	Lamberton Landfill Site, Marshall Meadows, Berwick upon Tweed	James Fairbairn	11,882	107,170	
South Lanarkshire	PPC/A/1010943	Dovesdale Farm	Wm Hamilton & Sons	79,245	1,500,000	
Stirling	PPC/A/1011233	Muirhouse LF, Muirhouse Quarry, Strathblane	Dow Waste Management	71,540	773,667	
Stirling	WML/E/0020171	Muirpark Farm Landfill, Tullibody	Marshall Farms	4,694	N/A	
West Dunbartonshire	PPC/A/1004362	Rigangower Landfill Site, by Milton, Dumbarton	William Thompson & Sons Ltd	77,374	380,000	
West Lothian	PPC/A/1008897	Torphin Quarry, Harburn, West Calder	Levenseat Ltd	6,422	110,000	

Appendix 2: Non-Hazardous Landfill Summary as at 31st December 2010

Sites marked with an asterisk indicate either that the remaining capacity has not been reported by the site operator, or is irrelevant due to the site entering the restoration phase.

Local authority	Licence/Permit number	Site name	Operator organisation	Stable non-reactive hazardous waste cell	2010 total landfilled (tonnes)	Remaining capacity as at 31/12/10 (tonnes)	Comments
Aberdeen	PPC/N/0020009	Hill of Tramaud Landfill Site, Bridge of Don	SITA North East Limited		113,513	6,000	
Aberdeenshire	PPC/A/1000060*	Crows Nest Landfill Site, Banchory	Aberdeenshire Council		12,564	0	Ceased landfilling during 2010
Aberdeenshire	PPC/A/1003256	Savoch Landfill, Newton of Savoch	Les Taylor Contractors	yes	18,681	74,000	
Aberdeenshire	PPC/N/0020001	Wester Hatton Landfill, Aberdeen	Shanks Waste Services Ltd		0	2,523,612	Not Active in 2010
Aberdeenshire	PPC/N/0020010	Stoneyhill Landfill Site	Stoneyhill Waste Management Ltd		159,040	3,600,000	
Aberdeenshire	PPC/N/0020026	Easter Hatton Farm, Balmedie, Aberdeenshire	Easter Hatton Environmental (Waste Away) Ltd	yes	80,101	447,737	
Angus	PPC/A/1000120	Restenneth Landfill Site	Angus Council		41,183	835,736	
Argyll & Bute	PPC/A/1004280	Dalinalongart Landfill Site, Sandbank, Dunoon	Shanks Argyll & Bute Limited		6,779	325,602	
Argyll & Bute	PPC/A/1004281	Lingerton Landfill Site	Shanks Argyll & Bute Limited		5,873	542,299	
Argyll & Bute	PPC/A/1008888	Gott Bay LFS, Isle of Tiree, Argyll	Argyll & Bute Council		215	14,000	

Local authority	Licence/Permit number	Site name	Operator organisation	Stable non-reactive hazardous waste cell	2010 total landfilled (tonnes)	Remaining capacity as at 31/12/10 (tonnes)	Comments
Argyll & Bute	PPC/A/1022141	Glengorm Landfill Site, Glengorm Rd, Tobermory	Argyll & Bute Council		1,852	36,500	
Argyll & Bute	PPC/A/1025163	Gartbreck LFS, Isle of Islay, Argyll	Argyll & Bute Council		1,908	88,210	
Dumfries & Galloway	PPC/A/1000154	Galdenoch Waste Disposal Site	Shanks Waste Management Limited		6,756	821,063	
Dumfries & Galloway	PPC/A/1000155*	Aucheninnes Waste Disposal Site	Shanks Waste Management Limited		1,877	0	Landfill operations ceased during 2010
Dumfries & Galloway	PPC/A/1025270	Auchenlosh Landfill Site, Dalbeattie	Armstrong Waste Management	yes	11,628	250,000	
East Ayrshire	PPC/W/0020019	Garlaff Landfill Sites, Skares Road, Cumnock	Barr Environmental Ltd	yes	80,336	0	
East Lothian	PPC/A/1004254	Cockenzie Ash Lagoons, Near Musselburgh	Iberdrola S.A. (Scottish Power Generation Ltd)		198,089	200,000	
East Lothian	PPC/E/0020058	Dunbar Landfill, Dunbar	Viridor Waste Management Ltd		243,389	15,462,996	
East Renfrewshire	PPC/A/1004259	East Capellie Farm Landfill, Neilston	J & M Murdoch & Sons Limited		9,491	340,889	
Eilean Siar	PPC/A/1004275	Bennadrove Landfill WTS CA ELV, Stornoway	Comhairle nan Eilean Siar	yes	20,712	1,432,000	
Falkirk	PPC/A/1004252	Broadside Landfill	Scottish Water		2,039	317,570	

Local authority	Licence/Permit number	Site name	Operator organisation	Stable non-reactive hazardous waste cell	2010 total landfilled (tonnes)	Remaining capacity as at 31/12/10 (tonnes)	Comments
Falkirk	PPC/A/1004300	West Carron Landfill	G R Service Co (Falkirk) Ltd		69,516	300,000	Remaining capacity estimated
Falkirk	PPC/E/0020059	Avondale Landfill - Polmont	Avondale Environmental Ltd	yes	488,548	2,815,415	
Fife	PPC/A/1004266	Valleyfield Ash Lagoons, Valleyfield, Culross	Iberdrola S.A. (Scottish Power Generation Ltd)		278,325	1,310,495	
Fife	PPC/E/0020083	Lochhead Landfill Site & Dunfermline Recycling Centre	Fife Council		223,369	2,560,270	
Fife	PPC/E/0020085	Fife Council, Lower Melville Wood L/F, Cupar	Fife Council	yes	82,714	844,200	
Glasgow	PPC/W/0020046	Greenoakhill Landfill, Mount Vernon, Glasgow	Patersons of Greenoakhill Ltd	yes	70,508	1,440,324	
Highland	PPC/A/1000148	Seater Landfill Site, Bower, by Wick	The Highland Council		21,605	352,000	
Highland	PPC/A/1004251	Granish Landfill Site Cell 3, By Aviemore	The Highland Council		6,715	99,600	
Highland	PPC/N/0050031	Duisky Landfill Site, Kinlocheil, Fort William	Locheil Logistics Ltd	yes	14,514	550,000	
Midlothian	PPC/E/0020007	Drummond Moor (No 2) Landfill Site, Roslin	Waste Recycling Group (Scotland) Ltd		914	1,672,778	
Midlothian	PPC/E/0020057*	Oatslie Sandpit Landfill, Roslin-Cleugh Road	Waste Recycling Group (Scotland) Ltd	yes	98,808	0	Going into restoration phase 2011
Moray	PPC/N/0020028	Nether Dallachy Landfill Site	Moray Council		54,342	800,000	

Local authority	Licence/Permit number	Site name	Operator organisation	Stable non-reactive hazardous waste cell	2010 total landfilled (tonnes)	Remaining capacity as at 31/12/10 (tonnes)	Comments
North Ayrshire	PPC/A/1003188*	Trearne Quarry Landfill Site	William Tracy (Trearne) Ltd		0	0	Application made for surrender
North Ayrshire	PPC/W/0020008	Knowes Farm IV Landfill Site	Smith Skip Ltd		14,538	410,000	
North Ayrshire	PPC/W/0020014	Shewalton Landfill Area 2	North Ayrshire Council		53,624	330,000	
North Lanarkshire	PPC/A/1000113	Auchinlea Landfill Site, Bellside, Cleland	North Lanarkshire Council		91,536	150,000	
North Lanarkshire	PPC/W/0020041	Greengairs Landfill, Greengairs, Airdrie	Waste Recycling Group (Scotland) Ltd	yes	271,157	14,113,822	
Perth & Kinross	PPC/E/0020056	SITA, Binn Farm Landfill Site	SITA UK Limited	yes	128,889	1,200,000	
Renfrewshire	PPC/A/1036720*	Reilly Quarry, Houston	W H Malcolm Ltd	yes	25,353	400,000	
Scottish Borders	PPC/A/1000112	Easter Langlee No 2 Landfill Site, Galashiels	Scottish Borders Council		54,157	774,729	
Shetland Islands	PPC/N/0050027	Gremista Waste Management Facility, Lerwick	Shetland Islands Council	yes	9,498	890,000	
South Ayrshire	PPC/A/1000105	Tarbolton Landfill, Mauchline	Tarbolton Landfill Limited		50,645	390,000	
South Ayrshire	PPC/A/1000116	Straid Farm Landfill Site	Straid Farm Ltd	yes	44,879	175,000	
South Lanarkshire	PPC/A/1004241	Rigmuir Landfill Site, Nr East Kilbride	Viridor Waste Management Ltd		102,418	628,268	

Local authority	Licence/Permit number	Site name	Operator organisation	Stable non-reactive hazardous waste cell	2010 total landfilled (tonnes)	Remaining capacity as at 31/12/10 (tonnes)	Comments
South Lanarkshire	PPC/W/0020063	South Cathkin Landfill Site	Glasgow City Council		546,211	991,982	
West Dunbartonshire	PPC/W/0020026	Auchencarroch Landfill, Alexandria	Barr Environmental Ltd	yes	132,691	2,310,000	
West Lothian	PPC/E/0020001	Levenseat Landfill	Levenseat Ltd		91,952	1,150,000	

Appendix 3: Hazardous Landfill Summary as at 31st December 2010

Local authority	Licence/Permit number	Site name	Operator organisation	2010 total landfilled (tonnes)	Remaining capacity as at 31/12/10 (tonnes)	Comments
Falkirk	PPC/E/0020086	Avondale Hazardous Landfill Site	Avondale Environmental Ltd	12,470	384,334	

Appendix 4: Landfill type information

The Landfill (Scotland) Regulations 2003 set out those wastes which may be accepted in the different classes of landfill, i.e. hazardous, non-hazardous or inert.

1. Waste may only be accepted at a landfill for inert waste if:
 - a) It does not undergo any significant physical, chemical or biological transformations;
 - b) It does not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm to human health; and
 - c) Its total leachability and pollutant content and the ecotoxicity of its leachate are insignificant and, in particular, do not endanger the quality of any surface water or groundwater.

2. Waste may only be accepted at a landfill for non-hazardous waste if it is:
 - a) municipal waste;
 - b) non-hazardous waste which does NOT feature on the list of hazardous waste in the European Waste Catalogue (EWC) 2002.
 - c) stable, non-reactive hazardous waste (such as that which is solidified with leaching behaviour that will not change adversely in the long term, under landfill design conditions or foreseeable accidents, e.g. bonded asbestos)

3. Waste may only be accepted at a landfill for hazardous waste if:
 - a) it is listed on the Hazardous Waste List of the European Waste Catalogue or has similar characteristics to those so listed;
 - b) its total content or leachability:
 - i. does not present a short term occupational risk or an environmental risk;
 - ii. would not prevent the stabilisation of the landfill within its projected lifetime taking account of its after care period following closure.

Appendix 5: SEPA data re-use statement



Scottish Environment Protection Agency Conditions on using our information

General

There are some conditions on the use of our information. These are set out in this notice. Please make sure you also comply with any specific conditions or guidance that we supply with our information.

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Content, quality and security

While we take reasonable care to ensure our information is accurate, complete, valid and up to date, we cannot guarantee this.

If you have asked for the information in an electronic format, we can not guarantee that it will be free of defects. It is your responsibility to check for viruses etc.

It is your responsibility to check that the data you request meets your needs.

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If you wish to use our information for any purposes other than those indicated in this notice, please contact the Information Management Unit at SEPA.

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Information Management Unit
SEPA
Erskine Court
The Castle Business Park
Stirling
FK9 4TR

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