



## Landfill Capacity Report for Scotland, 2008



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### 1. Introduction

This paper presents the total estimated capacity, authorised<sup>1</sup> by SEPA for the disposal of waste by landfill in Scotland as at 31 December 2008.

Detailed site by site information is available from the Landfill Capacity for Scotland Spreadsheet 2008 that accompanies this report:

[http://stir-app-net02/SepaWebsite/waste/waste\\_data/site\\_capacity\\_infrastructure/landfill\\_capacity\\_reports.aspx](http://stir-app-net02/SepaWebsite/waste/waste_data/site_capacity_infrastructure/landfill_capacity_reports.aspx)

Information on other Licensed/Permitted waste facilities is available in the National Capacity Spreadsheet 2008:

[http://www.sepa.org.uk/waste/waste\\_data/site\\_capacity\\_infrastructure/national\\_capacity\\_reports.aspx](http://www.sepa.org.uk/waste/waste_data/site_capacity_infrastructure/national_capacity_reports.aspx)

Waste data information is available on SEPA's website:

[http://www.sepa.org.uk/waste/waste\\_data.aspx](http://www.sepa.org.uk/waste/waste_data.aspx)

This paper does not attempt to project future trends in disposal or to assess the potential impact of any changes in waste management practice or policy that may affect future capacity. It is intended as a snapshot of available capacity as at 31 December 2008.

### 2. Landfill capacity in Scotland 2008

Under the Landfill Regulations (Scotland) 2003, all landfill sites are required to be classified as hazardous, non-hazardous or inert<sup>2</sup>.

Table 1 shows that, as at 31 December 2008, there were 68 landfills<sup>3</sup> authorised by SEPA to accept waste in Scotland: one hazardous; 46 non-hazardous; and 21 inert. Of the total number, 62 sites were actively landfilling waste throughout 2008 and 6 sites were not active during this period.

The total remaining capacity for all landfills as at 31 December 2008 was 81,349,890 tonnes: 290,491 tonnes for hazardous waste; 70,192,059 tonnes for non-hazardous waste; and 10,867,340 tonnes for inert waste.

Note that the remaining capacity for three of the inert landfills was not reported and could not be estimated from previous years' data. These are indicated by \* next to Licence/Authorisation number in Appendix 1.

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

<sup>2</sup> Refer to Landfill Type information note, page 5

<sup>3</sup> Excluding specialised sites that only consign their own waste material, ie. sewage sludge, incinerator ash & pet cemeteries or those in restoration phase.

**Table 1: Number, type and capacity of licensed/permited landfill sites in Scotland**

Type of landfill	Active in 2008		Not active in 2008		Total	
	Number	Remaining capacity (tonnes)	Number	Remaining capacity (tonnes)	Number	Remaining capacity (tonnes)
Inert	18	8,632,217	3	2,235,123	21	10,867,340
Non-hazardous	43	65,152,059	3	5,040,000	46	70,192,059
Hazardous	1	290,491	0	0	1	290,491
<b>Total</b>	<b>62</b>	<b>74,074,767</b>	<b>6</b>	<b>7,275,123</b>	<b>68</b>	<b>81,349,890</b>

In addition to the existing remaining landfill capacity listed in Table 1, the following applications for PPC permits in respect of **new** landfill sites are being considered by SEPA (Table 2).

Please note that these are **applications only** and may or may not be granted. It is also possible that the proposed capacity may be subject to alteration when application is determined.

**Table 2: Applications received by SEPA for PPC landfill permits**

Site name	Location	Proposed capacity	Landfill type
Old Mill Quarry	Beith North Ayrshire	1,400,000 tonnes	Inert
Mossband Farm	Newhouse North Lanarkshire	4,712,000 tonnes	Inert
Loanhead Quarry	Beith North Ayrshire	1,100,000 tonnes (in Phase I over 10 years)	Non Hazardous with Asbestos & Gypsum Cells
Bishopton Landfill	Bishopton Renfrewshire	100,000 cu. metres	Non Hazardous (principally for waste from Bishopton Regeneration project)
Skitten Quarry Landfill	Wick	85,000 tonnes	Inert
Howe of Byth	New Pitsligo Aberdeenshire	2,208,017cu. metres	Non Hazardous

### 3. Tonnes of inert and non-hazardous waste landfilled in 2008

In order for landfill capacity figures to be meaningful, a comparison has been made with the quantity of waste landfilled during the year 2008. Table 3 compares landfill capacity with the quantity of waste landfilled in each Waste Strategy Area for the calendar year 2008, excluding material used for landfill restoration purposes.

**Table 3: Inert and non-hazardous waste reported as landfilled during 2008 with reported remaining landfill capacity at 31 December 2008 by Waste Strategy Area**

Waste Strategy Area		Waste landfilled <sup>†</sup> at inert landfills (tonnes)	Inert landfill capacity * (tonnes)	Waste landfilled* at non hazardous landfills (tonnes)	Non hazardous landfill capacity (tonnes)
1	Orkney & Shetland	5,017	145,430	29,551	900,000
2	Western Isles	0	0	27,610	1,480,000
3	Highland	0	0	50,039	1,083,200
4	North East	77,067	2,597,185	552,750	6,782,674
5	Tayside	11,371	3,654,934	263,412	2,500,000
6	Forth Valley	129,880	1,848,762	525,360	5,401,302
7	Fife	0	0	300,122	3,177,577
8	Lothian & Borders	60,768	656,029	665,871	19,473,470
9	Ayrshire, Dumfries & Galloway	6,285	15,000	346,505	8,271,020
10	Glasgow & Clyde Valley	163,602	1,950,000	1,760,023	20,049,070
11	Argyll & Bute	0	0	20,293	1,073,746
<b>Total for Scotland</b>		<b>453,990</b>	<b>10,867,340</b>	<b>4,541,536</b>	<b>70,192,059</b>

\*The remaining capacity for three of the inert landfills was not reported and could not be estimated from previous years' data. These are indicated by \* next to Licence number in Appendix 1.

<sup>†</sup>The tonnages given for waste landfilled at inert and non hazardous landfills do not include restoration materials.

Landfills can accept waste from within the local authority boundaries and from all over Scotland and beyond, so waste landfilled within any given Waste Strategy Area does not necessarily correspond to the waste produced within that area. Analysis of the source and destination of waste destined for landfill is beyond the scope of this paper, but an analysis for 2006 is available in Strategic Waste Management Review (SWMR) reports:

[http://www.sepa.org.uk/waste/waste\\_data/waste\\_data\\_reports/waste\\_management\\_reviews.aspx](http://www.sepa.org.uk/waste/waste_data/waste_data_reports/waste_management_reviews.aspx)

#### 4. Tonnes of hazardous waste landfilled in 2008

Avondale hazardous landfill is the only site in Scotland specifically permitted to accept hazardous waste. Table 4 presents a summary of information for this site for 2008.

**Table 4: Hazardous waste reported as landfilled during 2008 and reported remaining capacity at 31 December 2008**

Waste Strategy Area		Waste landfilled at hazardous landfill (tonnes)	Hazardous landfill capacity at 31 December 2008 (tonnes)
6	Forth Valley	37,447	290,491

Sixteen non-hazardous sites, across Scotland, are permitted to accept bonded asbestos waste, as stable non-reactive hazardous waste<sup>4</sup>, 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 information used to derive these figures was obtained from Licensed/Permitted Site Return forms submitted, on a quarterly basis to SEPA, by sites holding a Waste Management Licence (WML) or relevant Pollution Prevention and Control permit (PPC). Although checks are made, SEPA cannot be held responsible for any errors contained within the data nor commercial decisions by operators on whether or not to fill an authorised void.

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 and 2 continue to be regulated under the Waste Management Licensing 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.

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<sup>4</sup> Refer to Landfill Type information note, page 5

### **Landfill type information note:**

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
  - does not present a short term occupational risk or an environmental risk;
  - would not prevent the stabilisation of the landfill within its projected lifetime taking account of its after care period following closure.

## Appendix 1 - Inert Landfill Summary at 31<sup>st</sup> December 2008

WSA	Licence/Permit number	Site name	Operator organisation	Local authority	2008 total landfilled (tonnes)	Remaining capacity as at 31/12/08 (tonnes)	Comments
1	PPC/A/1010715	OIC Bossack Landfill, Bossack, Orkney	ORKNEY ISLANDS COUNCIL	Orkney	1,570	98,430	
1	WML/N/0050070	Kingsdale Landfill, Firth Orkney	EWG DICKEY	Orkney	3,447	47,000	Application made for PPC Permit
4	PPC/A/1008691	Loch Hills Quarry, Parkhill, Dyce, Aberdeen	JOSS (ABERDEEN) LIMITED	Aberdeenshire	23,892	1,472,801	
4	PPC/A/1008856	Park Quarry, South Deeside Road, Aberdeen	CHAP QUARRIES (ABERDEEN) LTD	Aberdeenshire	37,559	1,000,000	
4	PPC/A/1008883	A & M Smith, Bankhead, Portlethen	A & M SMITH SKIPHIRE LIMITED	Aberdeenshire	15,616	124,384	
4	PPC/N/0020012*	Bodychell Sand & Gravel, Memsie, Fraserburgh	BODYCHELL SAND & GRAVEL LTD	Aberdeenshire	0	N/A	Not active No data submitted
5	PPC/A/1008878	D Geddes Ltd, Ardownie Landfill, Monifieth	D GEDDES (CONTRACTORS) LTD	Angus	4,072	1,198,761	
5	PPC/A/1008879	D Geddes (Con) Ltd, Prettycur Landfill, Forfar	D GEDDES (CONTRACTORS) LTD	Angus	3,426	20,650	
5	PPC/E/0020049	W B Grieve Groundworks	W B GRIEVE GROUNDWORKS	Perth and Kinross	3,556	105,000	
5	PPC/A/1008876	D Geddes Ltd, Border Quarry LF, Friockheim	D GEDDES (CONTRACTORS) LTD	Angus	0	359,853	Not active
5	PPC/A/1008926	Tayside Contracts, Bolshan Quarry LF, Friockheim	TAYSIDE CONTRACTS	Angus	317	95,400	
5	PPC/A/1009964	Hatton Mill Landfill site	GEDDES GROUP LIMITED	Angus	0	1,875,270	Not active

WSA	Licence/Permit number	Site name	Operator organisation	Local authority	2008 total landfilled (tonnes)	Remaining capacity as at 31/12/08 (tonnes)	Comments
6	PPC/A/1011233	Muirhouse LF, Muirhouse Quarry, Strathblane	DOW WASTE MANAGEMENT	Stirling	104,260	882,262	
6	WML/E/0020171	Muirpark Farm Landfill, Tullibody	MARSHALL FARMS	Stirling	25,620	966,500	Application made for PPC Permit
8	PPC/A/1003207	West Fortune Transfer Station & Landfill	J HAIG HAMILTON & SONS	East Lothian	18,164	177,500	
8	PPC/A/1008897	Torphin Quarry, by Harburn, West Lothian	LEVENSEAT LTD	West Lothian	31,133	350,000	
8	WML/E/0020197	Lamberton Landfill Site, Marshall Meadows, Berwick upon Tweed	JAMES FAIRBAIRN	Scottish Borders	11,471	128,529	Application made for PPC Permit
9	WML/W/0000211*	Townhead Farm Collin	DUNDAS CHEMICAL CO (MOSSPARK) LTD	Dumfries & Galloway	2,535	N/A	Closure planned in 2009
9	WML/W/0020182	High Boydstone Farm, Ardrossan	DAVID WILSON PARKER	North Ayrshire	3,750	15,000	
10	PPC/A/1004362	Rigangower Landfill Site, by Milton, Dumbarton	WILLIAM THOMPSON & SON LTD	West Dunbartonshire	90,000	500,000	
10	WML/W/0000155	Dovesdale Farm	WILLIAM HAMILTON & SONS	South Lanarkshire	73,602	1,450,000	
<b>Scotland Total</b>					<b>453,990</b>	10,867,340	

## Appendix 2 - Non Hazardous Landfill Summary at 31<sup>st</sup> December 2008

WSA	Licence/Permit number	Site name	Operator organisation	Local authority	Stable non-reactive hazardous waste cell	2008 total landfilled (tonnes)	Remaining capacity as at 31/12/08 (tonnes)	Comments
1	PPC/N/0050027	Gremista Waste Management Facility, Lerwick	SHETLAND ISLANDS COUNCIL	Shetland	yes	<b>29,551</b>	900,000	
2	PPC/A/1004275	Bennadrove Landfill Site, Stornoway	COMHAIRLE NAN EILEAN SIAR	Western Isles	yes	<b>27,610</b>	1,480,000	
3	PPC/A/1000148	Seater Landfill Site, Bower, by Wick	THE HIGHLAND COUNCIL	Highland	no	<b>25,607</b>	384,000	
3	PPC/A/1004251	Granish Landfill Site Cell 3, By Aviemore	THE HIGHLAND COUNCIL	Highland	no	<b>8,552</b>	119,200	
3	PPC/N/0050031	Duisky Landfill Site, Kinlocheil, Fort William	LOCHIEL LOGISTICS LTD	Highland	yes	<b>15,880</b>	580,000	
4	PPC/N/0020009	Hill of Tramaud Landfill Site	SITA NORTH EAST LIMITED	Aberdeen	no	<b>135,401</b>	280,000	
4	PPC/A/1003256	Savoch Landfill Site Newton of Savoch	LES TAYLOR CONTRACTORS	Aberdeenshire	yes	<b>1,931</b>	99,167	
4	PPC/A/1000060	Crows Nest Landfill Site, Banchory	ABERDEENSHIRE COUNCIL	Aberdeenshire	no	<b>22,678</b>	52,300	The remaining capacity at 31/12/2008 was estimated by subtracting 2008 landfilled tonnage from remaining capacity at 31/12/2007
4	PPC/N/0020010	Stoneyhill Landfill Site	STONEHILL WASTE MANAGEMENT LTD	Aberdeenshire	no	<b>220,613</b>	2,165,000	
4	PPC/N/0020026	Easter Hatton Farm, Balmedie, Aberdeenshire	EASTER HATTON ENVIRONMENTAL (WASTE AWAY) LTD	Aberdeenshire	yes	<b>112,521</b>	836,207	
4	PPC/N/0020001	Wester Hatton Landfill Site, Aberdeen	SHANKS WASTE SERVICES LIMITED	Aberdeenshire	no	<b>0</b>	2,500,000	Not active
4	PPC/N/0020028	Nether Dallachy Landfill Site	MORAY COUNCIL	Moray	no	<b>59,606</b>	850,000	

WSA	Licence/Permit number	Site name	Operator organisation	Local authority	Stable non-reactive hazardous waste cell	2008 total landfilled (tonnes)	Remaining capacity as at 31/12/08 (tonnes)	Comments
5	PPC/A/1000120	Restenneth Landfill Site	ANGUS COUNCIL	Angus	no	48,003	1,000,000	
5	PPC/E/0020056	SITA, Binn Farm Landfill Site	SITA UK LIMITED	Perth and Kinross	yes	215,409	1,500,000	
6	PPC/A/1004252	Broadside Landfill	SCOTTISH WATER	Falkirk	no	1,717.00	315,000	
6	PPC/A/1004300	West Carron Landfill Site	G R SERVICE CO (FALKIRK) LTD	Falkirk	no	74,692	400,000	
6	PPC/E/0020059	Avondale Landfill - Polmont	AVONDALE ENVIRONMENTAL LTD	Falkirk	yes	448,951	4,686,302	Extended during 2008
7	PPC/E/0020083	Lochhead Landfill Site & Dunfermline Recycling Centre	FIFE COUNCIL	Fife	no	217,895	2,920,702	
7	PPC/E/0020085	Fife Council, Lower Melville Wood Landfill Site, Cupar	FIFE COUNCIL	Fife	yes	82,227	256,875	
8	PPC/A/1000112	Easter Langlee No 2 Landfill Site, Galashiels	SCOTTISH BORDERS COUNCIL	Scottish Borders	no	72,420	925,516	
8	PPC/E/0020001	Levenseat Landfill Site	LEVENSEAT LTD	West Lothian	no	100,462	1,300,000	
8	PPC/E/0020057	Oatslie Sandpit Landfill, Cleugh Road Roslin	WASTE RECYCLING GROUP (SCOTLAND) LTD	Midlothian	yes	183,493	210,000	
8	PPC/E/0020007	Drummond Moor (No 2) Landfill Site, Roslin	WASTE RECYCLING GROUP (SCOTLAND) LTD	Midlothian	no	0	1,340,000	Not active
8	PPC/E/0020058	Dunbar Landfill Site, Dunbar	VIRIDOR WASTE MANAGEMENT LTD	East Lothian	no	309,496	15,697,954	
9	PPC/A/1000105	Tarbolton Landfill Site, Tarbolton Ayrshire	TARBOLTON LANDFILL LIMITED	South Ayrshire	no	58,716	420,000	

WSA	Licence/Permit number	Site name	Operator organisation	Local authority	Stable non-reactive hazardous waste cell	2008 total landfilled (tonnes)	Remaining capacity as at 31/12/08 (tonnes)	Comments
9	PPC/A/1000116	Straid Farm Landfill Site	STRAID FARM LTD	South Ayrshire	yes	80,060	280,000	
9	PPC/A/1000154	Galdenoch Waste Disposal Site	SHANKS WASTE MANAGEMENT LIMITED	Dumfries & Galloway	no	14,031	839,408	
9	PPC/A/1000155	Aucheninnes Waste Disposal Site	SHANKS WASTE MANAGEMENT LIMITED	Dumfries & Galloway	no	19,962	676,612	
9	PPC/W/0020014	Shewalton Landfill Site Area 2	NORTH AYRSHIRE COUNCIL	North Ayrshire	no	58,348	240,000	
9	PPC/W/0020008	Knowes Farm IV Landfill Site	SMITH SKIP LTD	North Ayrshire	no	934	310,000	
9	PPC/A/1003188	Treane Quarry Landfill Site	WM TRACEY (TREANE) LTD	North Ayrshire	no	0	1,200,000	Not active
9	PPC/W/0020019	Garlaff Landfill Site, Skares Road, Cumnock	BARR ENVIRONMENTAL LTD	East Ayrshire	yes	103,679	4,000,000	
9	WML/W/0000272	Auchenlosh Phase 2 Dalbeattie	ARMSTRONG WASTE MANAGEMENT	Dumfries & Galloway	yes	10,775	305,000	Application made for PPC Permit
10	PPC/A/1000113	Auchinlea Landfill Site, Bellside, Cleland	NORTH LANARKSHIRE COUNCIL	North Lanarkshire	no	118,169	250,000	
10	PPC/A/1004241	Rigmuir Landfill Site, Nr East Kilbride	VIRIDOR WASTE MANAGEMENT LTD	South Lanarkshire	no	86,409	1,330,000	
10	WML/W/0000077	Reilly Quarry, Houston	WH MALCOLM LTD	Renfrewshire	yes	233,578	150,000	Application made for PPC Permit
10	PPC/A/1004259	East Capellie Farm Landfill Site, Neilston	J & M MURDOCH & SON LTD	East Renfrewshire	no	13,602	453,600	
10	PPC/W/0020026	Auchencarroch Landfill Site, Alexandria	BARR ENVIRONMENTAL LTD	West Dunbartonshire	yes	283,155	2,800,000	

WSA	Licence/Permit number	Site name	Operator organisation	Local authority	Stable non-reactive hazardous waste cell	2008 total landfilled (tonnes)	Remaining capacity as at 31/12/08 (tonnes)	Comments
10	PPC/W/0020041	Greengairs Landfill Site, Greengairs, Airdrie	SHANKS WASTE SERVICES LIMITED	North Lanarkshire	yes	285,718	11,390,365	
10	PPC/W/0020046	Greenoakhill Landfill Site, Mount Vernon, Glasgow	PATERSONS OF GREENOAKHILL LTD	Glasgow City	yes	114,497	1,600,000	
10	PPC/W/0020063	South Cathkin Landfill Site	GLASGOW CITY COUNCIL	South Lanarkshire	no	624,895	2,075,105	
11	PPC/A/1022141	Glengorm Landfill Site, Glengorm Rd, Tobermory	ARGYLL & BUTE COUNCIL	Argyll & Bute	no	2,781	90,440	
11	PPC/A/1004280	Dalinelongart Landfill Site, Sandbank, Dunoon	SHANKS ARGYLL & BUTE LIMITED	Argyll & Bute	no	7,508	349,875	
11	PPC/A/1004281	Lingerton Landfill Site	SHANKS ARGYLL & BUTE LIMITED	Argyll & Bute	no	7,377	586,154	
11	PPC/A/1008888	Gott Bay Landfill Site, Isle of Tiree, Argyll	ARGYLL & BUTE COUNCIL	Argyll & Bute	no	436	47,277	
11	WML/W/0020049*	Gartbreck LFS, Isle of Islay, Argyll	ARGYLL & BUTE COUNCIL	Argyll & Bute	no	2,191	N/A	
<b>Scotland Total</b>						<b>4,541,536</b>	70,192,059	

Appendix 3 - Hazardous Landfill Summary at 31<sup>st</sup> December 2008

WSA	Licence/Permit number	Site name	Operator organisation	Local authority	2008 total landfilled (tonnes)	Remaining capacity as at 31/12/08 (tonnes)	Comments
6	PPC/E/0020086	Avondale Hazardous Landfill Site	AVONDALE ENVIRONMENTAL LTD	Falkirk	37,447	290,491	