



**Comhairle Contae
Dhún na nGall**
Donegal County Council

Annual Environmental Report

CHURCHTOWN LANDFILL SITE
(Waste Licence Ref. W0062-1)

by
Donegal County Council
for
Environmental Protection Agency

Reporting Period: January to December 2013

May 2014

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1. INTRODUCTION

- 1.1 Donegal County Council holds Waste Licence ref. W0062-1 for Churchtown Landfill Site. The site closed on 31st August 2000. This report provides a review of environmental monitoring data collected for 2013.
- 1.2 The landfill facility at Churchtown occupies an area of approximately 9.7 hectares in the townland of Churchtown, near Lifford, Co. Donegal.
- 1.3 The site is located approximately 3km south west of Lifford and bordered to the northwest by the N15, the main Lifford to Ballybofey Rd. The ground to the northeast and southwest of the site is the low lying and gently undulating flood plain of the River Finn both areas being used for grazing. The southeastern boundary is formed by the River Finn. Site Location and Layout are shown on plans BL568640/100 and BL568640/106.

2. REPORTING PERIOD

The reporting period for this Annual Environmental Report (AER) is from January 2013 to December 2013.

3. WASTE ACTIVITIES CARRIED OUT AT THE FACILITY

- 3.1 In accordance with Condition 5.2 of the waste licence only 11,000 tonnes per annum of inert waste shall be disposed of or recovered at the facility for the purposes of restoration of the site.
- 3.2 The licensed waste disposal activities in accordance with the Third Schedule of the waste Management Act, 1996 are restricted to those listed as follows:
- **Class 1:** Deposit on, in or under land (including landfill).^{Note 1}
 - **Class 4:** Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.
 - **Class 13:** Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

Note 1: This activity is limited to the disposal of inert waste only at the facility.

4. QUANTITY AND COMPOSITION OF WASTE RECEIVED AND DISPOSED OF DURING THE REPORTING PERIOD AND EACH PREVIOUS YEAR.

4.1 Only household solid municipal waste, commercial waste of a similar character to solid municipal waste and non-hazardous construction and demolition waste was accepted at the site prior to closure in August 2000. Since closure, the only material to be accepted at the site was a quantity of topsoil stored inside the facility to be used for the impending restoration of the landfill. This material originated from the development of the Stranorlar Civic Amenity Site and was approved by the EPA.

4.2 Table 4.1 shows waste data figures for Churchtown Landfill site from 1998 until 2013.

Table 4.1 Waste quantities accepted (tonnes)

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Total	17,900*	20,700*	13,800*	0	0	0	0	4.423 [#]	0	0	0	0	0
Year	2011	2012	2013										
Total	0	0	0										

*Figures are estimates

[#]Restoration materials stockpiled on site

4.3 Waste data figures were estimated by means of assessment based on the category of vehicle depositing waste at the site.

5. CALCULATED REMAINING CAPACITY OF THE FACILITY AND YEAR IN WHICH FINAL CAPACITY IS EXPECTED TO BE REACHED

5.1 The site ceased operation on 31st August 2000. The only available capacity is for importation of inert, restoration materials (limited to 11,000 tonnes per annum).

6. METHODS OF DEPOSITION OF WASTE

- 6.1 Neither waste nor inert restoration materials were received at the Churchtown Landfill Site during the reporting period.
- 6.2 Donegal County Council shall obtain suitable inert material to facilitate the restoration of the landfill. This inert material shall, where possible, be obtained from large single point sources so that consistency of material can be maintained. It is envisaged that the main source of this material may be from large development sites or other construction activities.
- 6.3 On identification of inert material an inspection shall be carried out by Donegal County Council to assess its suitability as cover material (as specified in the Restoration and Aftercare Plan). Provided suitability is established initial acceptance shall be granted.
- 6.4 Materials will be initially stockpiled on the site, before being placed to form the capping system. Placement will be in accordance with the Restoration and Aftercare Plan.

7. SUMMARY REPORT ON EMISSIONS

7.1 Monitoring Regime

The location, frequency, sample type and required parameters for analysis are specified in Schedule F of the Waste Licence for the site. These are summarised in the tables contained in Appendix A. Monitoring locations are illustrated in drg. no. 5234.63/107. Results of the analysis for the reporting period are contained in Appendix B.

7.2 Groundwater

7.2.1 Groundwater flows in a southeasterly direction towards the River Finn. Groundwater quality monitoring was originally carried out at four locations, BH1, BH2, BH3 and BH4 as listed in Table F.4.2 in the waste licence. These original wells were installed in August 1998, however wells BH1, BH2 & BH3 ceased to be used for groundwater monitoring, as they are located within waste. They now serve as leachate wells (L1, L2 & L3).

7.2.2 Three additional boreholes were required by the Waste Licence (Condition 4.11) and the installation work was undertaken in July 2001. BH1 (downstream) and BH3 (upstream) were successfully relocated. Difficulty was encountered in the installation of a second down gradient borehole. Despite four additional pits being started along the length of the landfilled boundary each location encountered waste and therefore were deemed inappropriate to be used as a groundwater borehole. It was not possible to move further down gradient due to the fact that the river is in such close proximity to the landfill site. As a result there is only one down gradient groundwater monitoring point (BH1).

7.2.3 Groundwater monitoring is now undertaken at BH1 and BH3 which were installed in July 2001 and BH4 installed in August 1998. These are shown in Drawing No. BL568640/106 and given in Appendix A. BH3 and BH4 are representative of up gradient water quality and borehole BH1 is representative of down gradient water quality. BH4 has been damaged and is not accessible. This well is due to be replaced during 2014.

7.2.4 Results continue to show that very little contamination of groundwater from the waste body is occurring. Ammonia and conductivity levels are low and generally comparable in the down-gradient borehole to those up-gradient of the waste, and are similar to those reported during the last period. Results are contained in Appendix B.

7.3 Surface Water

7.3.1 Churchtown Landfill Site is situated in the lower alluvial flood plain of the River Finn. The River forms the boundary to the south east of the site. Monitoring of surface water quality is carried out at seven locations (SW1 - SW7). SW7 (downstream) was added to surface water monitoring locations as required by Condition 4.13 of the Waste Licence. The land drains to

the each side of the waste are currently deemed to be surface water systems, however they effectively serve as leachate drains and the Council is currently investigating the viability of diverting upstream surface water to an alternative route to the River Finn and re-designating the monitoring points located in the land drains as leachate points. Work is currently underway on this.

- 7.3.2 Surface water results indicate that leachate is being released from the facility into land drains at the side of the waste body (as has previously been reported) but results continue to show that there is no significant contamination of the River Finn due to the large assimilative capacity of this water system. Results are contained in Appendix B. Results are consistent with previous reporting periods.

7.4 Leachate

- 7.4.1 Churchtown Landfill Site was designed on a dilute and disperse basis. However the boulder clay layer underlying the site functions as an aquitard preventing downward migration of leachate. No formal drainage system is provided on the site however the two land drains that run the length of the north-eastern and south-western sides of the landfill direct surface water, and any leachate emitting from the waste body, into the River Finn.

- 7.4.2 Monitoring of leachate is carried out at three locations on site at L1, L2 & L3 as shown on drg. no. 5234.63/107. Well L1 is currently inaccessible and due for replacement in 2014. Results remain within typical ranges for key leachate parameters (ref. typical parameter ranges for leachate as contained in EPA Manual 'Landfill Operational Practices' 1997) but show the leachate to be fairly weak.

7.5 Landfill Gas

- 7.5.1 Landfill gas is currently allowed to vent through the temporarily capped waste. It is proposed to introduce passive gas vents into the waste body as part of the formal restoration of this site, but a recent VOC survey has shown no emissions from the site. Landfill gas is monitored at nine locations, six of which are located within the site (in waste), one (LG4) is located just outside the waste body, and two (LG8 and LG9) are positioned in the road verge immediately to the northwest of the site. During the reporting period it was discovered that a number of the wells were covered over when areas of eroded cover were topped up and are now inaccessible. These wells are to be replaced during 2014.

- 7.5.2 Results for 2013 are available from 4 wells (LG2, LG5, LG6 & LG7). These wells are all in waste and show a variation in productivity with methane levels varying from 0% to 72.1%. All results are contained in Appendix B.

8. SUMMARY OF RESULTS AND INTERPRETATIONS OF ENVIRONMENTAL MONITORING**8.1 Groundwater**

8.1.1 Please refer to Section 7.

8.2 Surface Water

8.2.1 Please refer to Section 7.

8.3 Leachate

8.3.1 Please refer to Section 7.

8.4 Gas

8.4.1 Please refer to Section 7.

8.5 Dust & Noise

There is currently no activity on site and as such no nuisance monitoring programme. Should any operational activity commence on site requirements for dust and noise control and monitoring will be reviewed in line with the Licence and the Environmental Management System for the site.

9. PROPOSED DEVELOPMENT OF THE SITE & TIMESCALE OF SUCH DEVELOPMENT

- 9.1 The original Restoration and Aftercare Plan received approval from the EPA in March 2006, at which time the site was scheduled for restoration in 2008. During 2007 it became apparent that the NRA's proposed corridor for the realignment of the N15 (project then at Planning and Design Stage) passed through a portion of the landfill. Following meetings held between the EPA, the NRA and Donegal County Council it was decided that, since the realigned road does have to follow this route, the restoration of the landfill will take account of the proposed roadworks. A revised Restoration and Aftercare Plan was submitted to the EPA for approval in December 2007. This proposed that the waste in the section of the site to form the landtake for the NRA will be excavated and used to re-profile the balance of the site thus allowing the waste boundary to be reviewed after restoration. The Agency approved the revised plan in June 2008 and at that stage it was anticipated that the restoration project would proceed during 2009.
- 9.2 Work was carried out to agree a funding contribution from the NRA to cover the marginal cost attributable to the engineering work required to accommodate the proposed road alignment. In December 2008 it became apparent that funds would not be available from the NRA in the foreseeable future. At the time of reporting the N15 project is still not on a construction programme and a commencement date remains undetermined.
- 9.3 A request was made to the Agency in December 2008 for a reprioritisation of the restoration programme for closed sites in County Donegal and this was duly approved by the Agency. This reprioritisation rescheduled work on the Churchtown site to commence in 2011.
- 9.4 This programme assumed progress with the restoration of another closed site (Balbane LS) during 2010, progress of the N15 project (or at least contribution of marginal cost by the NRA) and approval of grant funding by DECLG. During 2010, the overall programme for the restoration of the Council's remaining closed sites (Balbane LS and Churchtown LS) was subject to reassessment in the light of the economic climate generally and the budget agreed for the Council at the end of 2009, and particularly with consideration of the removal of grant funding from the DEHLG. Progress with these restoration projects has been on hold since this time and remains under discussion with the Agency. At the end of the 2011 reporting period the Council was awaiting grant funding from the Department in order to proceed with restoration work as proposed. During 2012 the EPA wrote to Donegal County Council (ref. EPA letter re. Churchtown LS dated 28/06/12) directing it to request exceptional grant funding from the Department to allow the restoration to proceed. Meanwhile the emergence of bio-technologies as alternative or supplementary engineering solutions for restoring such sites was being investigated.

9.5 During the 2013 reporting period the Council, with support from the ANSWER Project, proposed to the Agency a bio-technology solution to restoring Churchtown LS involving the use of a willow crop for the treatment of leachate and a low permeability clay cap together with ancillary works. The SEW for this project was approved in January 2014 and procurement for the project is well advanced to achieve the requisite timescales for planting in 2014.

10. VOLUME OF LEACHATE PRODUCED AND VOLUME OF LEACHATE TRANSPORTED / DISCHARGED OFF SITE

10.1 A water balance calculation has been carried out, see Section 15 and Appendix C. Using this calculation the amount of leachate generated by the landfill has been estimated. The estimate for the year from the calculation is 24,014m³. As there is no leachate collection infrastructure in place on the site, this quantity is all dispersed into the surrounding environment, in line with the original dilute and disperse design of the landfill. The planned bio-remediation of the site using willow (see Section 9) allows for the collection and storage of leachate prior to its spreading over the willow crop.

11. REPORT ON THE RESTORATION OF COMPLETED CELLS / PHASES

11.1 At the time of closure intermediate capping of the site was undertaken with approximately 300mm of clay material placed using a tracked bulldozer and not rolled.

11.2 See Section 9 for information about restoration proposals and scheduling of the work.

12. SITE SURVEY SHOWING EXISTING LEVELS OF THE FACILITY AT THE END OF THE REPORTING PERIOD

12.1 A topographical survey of the site was carried out on 6th September 2000 following the closure of the site. This survey was submitted in the AER for 2003. A further survey was conducted in 2008 and submitted to the Agency in April 2008. Survey work conducted recently in support of the bio-remediation proposal discussed in Section 9.5 have been submitted as part of that proposal.

13. ESTIMATED ANNUAL AND CUMULATIVE QUANTITIES OF LANDFILL GAS EMITTED FROM THE SITE

- 13.1 Gas emissions from the landfill were remodelled using gassim in 2005. The revised model results are summarised in Appendix D.
- 13.2 The revised estimate for total bulk landfill gas produced in 2013 is 580,438m³.

14. ESTIMATED ANNUAL AND CUMULATIVE QUANTITY OF INDIRECT EMISSIONS TO GROUNDWATER

- 14.1 The site operates on a dilute and disperse basis and as such any leachate generated disperses into the surrounding environment. A water balance calculation is included in Appendix C. This indicates that the estimated volume of leachate being produced at the site for 2013 is approximately 24,014m³.

15. MONTHLY WATER BALANCE CALCULATION AND INTERPRETATION

- 15.1 The calculation for monthly water balance is as follows and is included in Appendix C. A summary of the results has been discussed in previous sections above.

$$Lo = [ER (A) + LW + IRCA + ER (1)] - [aW]$$

Where:

Lo = leachate produced (m³)

ER = effective rainfall

A = area of cell (m²)

LW = liquid waste

IRCA = infiltration through restored areas and capped areas (m)

a = absorptive capacity of waste (m³/t)

W = weight of waste deposited

I = surface area of lagoons (m²)

16. SCHEDULE OF ENVIRONMENTAL OBJECTIVES AND TARGETS FOR THE FORTHCOMING YEAR.

- 16.1 Please refer to Section 9.

17. REPORT ON THE PROGRESS TOWARDS ACHIEVEMENT OF THE ENVIRONMENTAL OBJECTIVES AND TARGETS CONTAINED IN THE PREVIOUS YEARS REPORT

- 17.1 Progress towards meeting targets and objectives set down for the reporting period is outlined in Section 9.

18. FULL TITLE AND A WRITTEN SUMMARY OF ANY PROCEDURES DEVELOPED BY THE LICENSEE IN THE YEAR, WHICH RELATES TO THE FACILITY OPERATION.

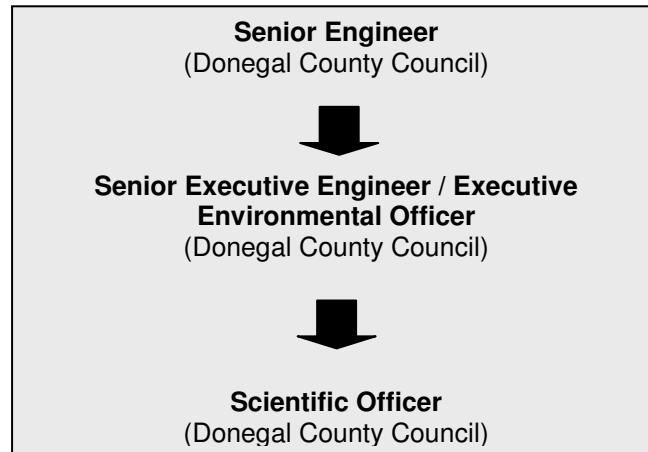
- 18.1 Environmental Management Procedures have been developed for the purpose of maintaining and assessing the Environmental Management System. Operational procedures ensure that the routine operational tasks related to the environmental management of the facility are undertaken in a satisfactory manner as required to maintain effective control of the environmental aspects of the facility.
- 18.2 An Environmental Management System (EMS) was submitted to the EPA during 2004 and approved. During 2006 the document was reviewed and there was not deemed to be any need to revision of addition of any procedures. This remains the situation.

19. REPORTED INCIDENTS AND COMPLAINTS SUMMARIES

- 19.1 No complaints were received during the reporting period.
- 19.2 Donegal County Council reports on an on-going basis all occasions where either surface waters or groundwaters are found to contain in excess of 0.2mg/l ammonia, or where perimeter gas wells are found to contain greater than either 1% methane or 1.5% carbon dioxide. These are reported as incidents each quarter when the results become available.
- 19.3 Apart from the on-going monitoring exceedances reported explained above, there were no other incidents during the reporting period.

20. REPORT ON FINANCIAL PROVISIONS MADE UNDER THIS LICENCE, MANAGEMENT AND STAFFING STRUCTURE OF THE FACILITY AND A PROGRAMME FOR PUBLIC INFORMATION.

- 20.1 Management of the landfill site is as follows.



- 20.1.1 Senior Engineer: Overall responsibility for the management of the site and maintenance of the Waste Licence. Delegation of authority and responsibility to ensure the effective management of the facility.
- 20.1.2 Senior Executive Engineer: Responsible for the operational management of the facility as directed by the Senior Engineer.
- 20.1.3 Executive Environmental Officer: Responsible for compliance with EPA Licence.
- 20.1.4 Scientific Officers: Carry out environmental inspections, monitoring and reporting in accordance with licence requirements to ensure compliance.
- 20.2 A public communication programme has been initiated in accordance with Condition 2 of the Waste Licence to ensure that information concerning the environmental performance is available at reasonable times. The public may view environmental records at the Donegal County Council Headquarters in Lifford. Details regarding this are contained in Section 2 of the Environmental Management System Manual.
- 20.3 As a Local Authority, Donegal County Council is fully committed to the on-going investment as required by this facility to ensure that it is properly managed environmentally.



TITLE SITE LOCATION PLAN

PROJECT CHURCHTOWN LANDFILL SITE

CLIENT DONEGAL COUNTY COUNCIL

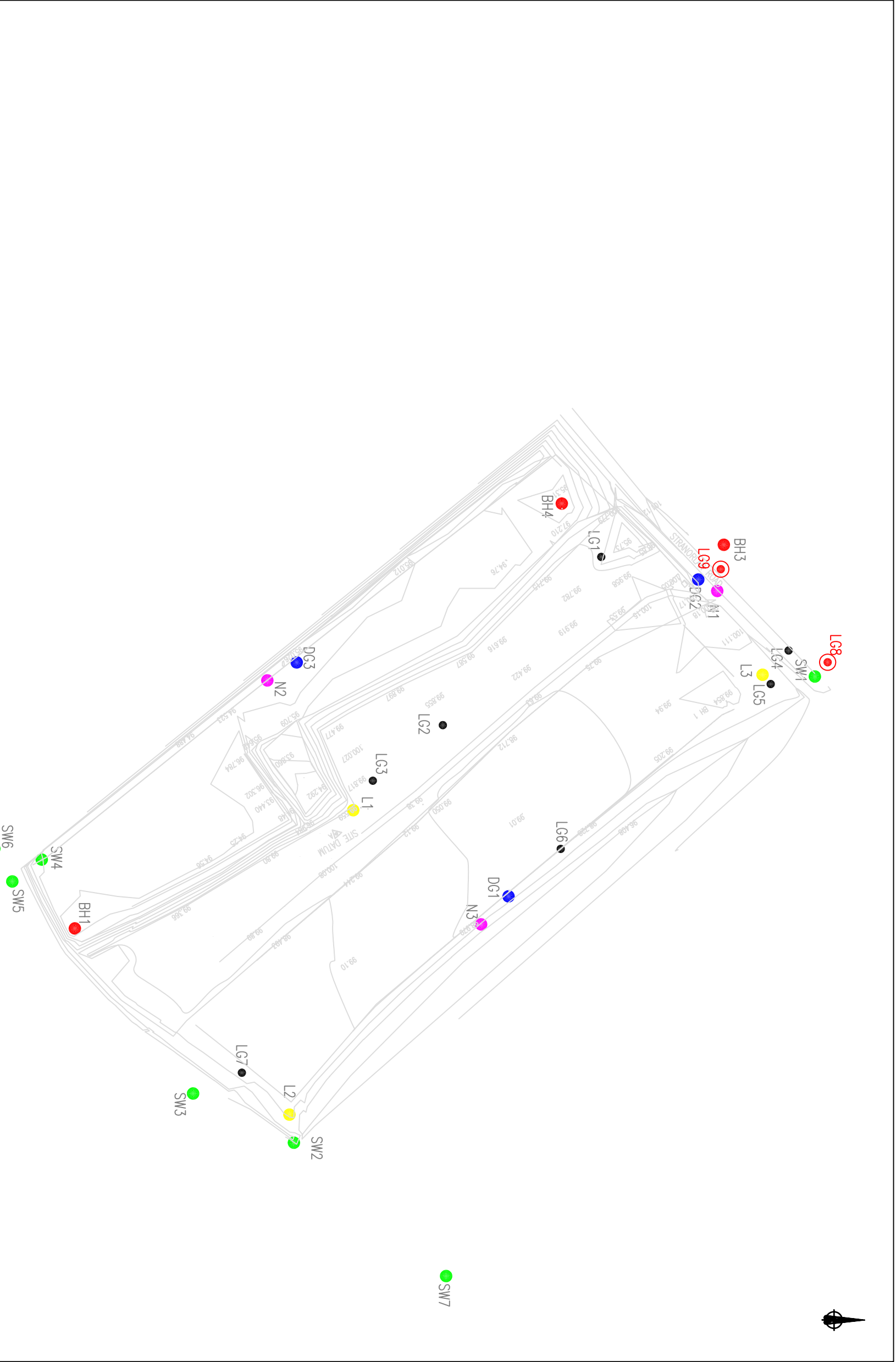
RPS Kirk McClure Morton
CONSULTING ENGINEERS

ELMWOOD HOUSE 74 BOUCHER ROAD BELFAST BT12 6RZ
 TEL: 028 9066 7914 FAX: 028 9066 8286
 www.kirkmccluremorton.com

PLOT SCALE 1:50,000	DRAWN DATE 21 OCT 2004	PMcM	CHECKED DATE 21 OCT 2004	DJD	APPROVED DATE 21 OCT 2004	DJD	DWG No. 5234.63/100
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100mm

100mm



NOTES

- SITE BOUNDARY
- LG ● GAS MONITORING POINTS
- L ● LEACHATE SAMPLING POINTS
- BH ● GROUNDWATER MONITORING POINT
- SW ● SURFACE WATER MONITORING POINT
- DG ● DUST MONITORING POINTS
- N ● NOISE MONITORING POINTS
- LG (with circle) ● NEW BOREHOLE LOCATION

REV	DESCRIPTION	BY DATE	CHECK DATE

DRAWN BY PMCM	CHECK BY AMCG	APPROVED DUD
DATE AUG 04	DATE AUG 04	DATE OCT 04
PLOT SCALE 1:2500		SHEET SIZE A3

CLIENT
DONEGAL COUNTY COUNCIL

PROJECT
CHURCHTOWN LANDFILL SITE

TITLE
MONITORING POINTS

RPS Kirk McClure Morton
 CONSULTING ENGINEERS

ELMWOOD HOUSE
 74 BOLLACHER ROAD
 BELFAST BT12 8RZ

TEL: 028 9066 7914
 FAX: 028 9066 8286
 www.kirkmccluremorton.com

ARCHITECT	DWG. STATUS
DRAWING No. 5234.63/107	PRELIM. ●
REVISION	TENDER
	CONST.
	RECORD

APPENDIX A

MONITORING LOCATIONS, FREQUENCIES and PARAMETERS

Table A1: Monitoring Locations (Grid Refs)		
	Eastings	Northings
BH1	231,072	395,752
BH3	230,840	396,127
BH4	230,818	296,041
L1	230,999	395,925
L2	231,169	395,887
L3	230,931	396,142
LG1	230,875	296,078
LG2	230,997	395,964
LG3	230,999	395,928
LG4	230,917	396,174
LG5	230,923	396,155
LG6	231,045	396,015
LG7	TBC	TBC
SW1	230,934	396,164
SW2	231,177	395,895
SW3	231,180	395,840
SW4	231,026	395,734
SW5	231,038	395,711
SW6	230.983	295,705
SW7	231,248	395,949

Table A2: Groundwater Parameters and Monitoring Frequencies	
Quarterly	Annually
Groundwater levels, Ammoniacal Nitrogen, Chloride, Dissolved Oxygen, Electrical Conductivity, pH, Temperature, Potassium Sodium, TON, TOC, Nitrate, Nitrite, Phenols. In addition a Visual Inspection/Odour will take place quarterly.	Boron, Cadmium, Calcium, Chromium, Copper, Cyanide, Fluoride, Iron, Lead, List I & II organic substances, Magnesium, Manganese, Mercury, Sulphate, Total Alkalinity, Total Phosphorous, Residue on evaporation, Zinc, Faecal Coliforms, Total Coliforms

Table A3: Surface Water Parameters and Monitoring Frequencies		
Monthly	Quarterly	Annually
Ammoniacal Nitrogen, BOD, Dissolved Oxygen, Electrical Conductivity, pH, Temperature, TSS Chlorine, Copper, Nitrate, Nitrite, Phenols, Zinc,	COD, Chloride.	Cadmium, Calcium, Chromium, Iron, Lead, List I & II organic substances, Magnesium, Manganese, Mercury, Potassium, Sulphate, Sodium, Total Alkalinity, Total Phosphorous, TON.

APPENDIX B

RESULTS OF MONITORING

V BH1	Sample Date	Ammonia (as N)	BOD	COD	Chloride	Conduct'y @ 20°C	Copper	DO (Measure' t)	Nitrate (as N)	Nitrite (as N)	pH	Temp	Zinc	SS	Phenols
SW1	14/02/2013	0.073	1.85	15	24	159	NT	11.7	1.78	<0.010	6.88	6.9	NT	1	NT
SW2	14/02/2013	0.055	0.52	19	25	72	NT	11.05	<0.100	<0.010	7.24	6.8	NT	NT	<0.002
SW3	14/02/2013	0.206	1	22	24	81	NT	11.52	<0.100	<0.010	7.14	6.7	NT	2	<0.02
SW4	14/02/2013	1.2	2.03	25	29	296	NT	10.33	1.89	<0.010	6.85	6.8	NT	3.8	<0.025
SW5	14/02/2013	0.082	0.53	24	25	77	NT	10.48	<0.100	<0.010	7.28	6.7	NT	3	NT
SW6	14/02/2013	<0.040	0.62	20	24	83	NT	11.59	<0.100	<0.010	7.29	6.7	NT	NT	<0.002
SW7	14/02/2013	0.109	1.19	20	24	81	NT	11.57	<0.100	<0.010	7.13	6.7	NT	2.4	<0.02
SW1	12/03/2013	0.076	NT	NT	NT	NT	1.6	NT	1.41	<0.010	NT	NT	<0.41	303	<0.025
SW2	12/03/2013	27.5	NT	NT	NT	NT	2.15	NT	0.519	<0.010	NT	NT	1.15	2.2	NT
SW3	12/03/2013	0.202	NT	NT	0.1	NT	2.12	NT	0.362	<0.010	NT	NT	1.05	NT	<0.002
SW4	12/03/2013	1.27	NT	NT	0.08	NT	2.22	NT	0.448	<0.010	NT	NT	1.15	3	0.02
SW5	12/03/2013	<0.040	NT	NT	0.05	NT	2.15	NT	0.396	<0.010	NT	NT	1.07	3	<0.025
SW6	12/03/2013	0.13	NT	NT	0.1	NT	2.18	NT	0.386	<0.010	NT	NT	1.05	3	NT
SW7	12/03/2013	0.237	NT	NT	0.04	NT	2.12	NT	0.358	<0.010	NT	NT	1.2	NT	NT
SW1	18/04/2013	<0.040	1.31	11	27	162	<0.001	11.61	0.995	<0.010	7.82	10	<0.001	3.6	<0.02
SW2	18/04/2013	0.063	1.62	32	28	66	<0.001	10.86	<0.100	<0.010	7.23	9.4	0.001	108	<0.025
SW3	18/04/2013	0.109	1.22	25	23	62	<0.001	10.95	<0.100	<0.010	7.09	9.5	0.001	2.4	NT
SW4	18/04/2013	6.98	5.22	42	40	343	0.001	10.19	1.92	0.038	7.53	10.2	<0.001	NT	<0.002
SW5	18/04/2013	0.143	1.29	25	24	63	<0.001	11.11	0.624	0.646	7.2	9.5	<0.001	2.4	<0.02
SW6	18/04/2013	0.058	1.2	23	23	62	<0.001	11.17	<0.100	<0.010	7.14	9.5	<0.001	15.2	<0.025
SW7	18/04/2013	0.046	1.2	22	23	62	<0.001	11.1	<0.100	<0.010	7.05	9.5	<0.001	1	NT
SW1	11/09/2013	0.1	0	19	18	195	0.002	8.34	<0.10	0.06	6.81	14.1	0.003	NT	<0.002
SW2	11/09/2013	37.1	3.06	132	80	1332	0.001	5.82	<0.10	0.09	7.05	13.8	0.001	3	<0.02
SW3	11/09/2013	0.2	0.59	39	20	98	0.002	8.43	<0.10	0.07	7.32	13.7	0.002	2.8	<0.025
SW4	11/09/2013	32.5	3.8	77	85	1049	0.002	7.1	0.31	0.33	7.41	13.9	0.002	2	NT
SW5	11/09/2013	30.4	4.47	59	66	1030	0.002	7.66	0.73	0.29	7.42	13.8	0.013	NT	<0.002
SW6	11/09/2013	0.2	0.18	41	20	98	0.001	8.44	<0.10	0.07	7.45	13.7	0.002	3	<0.02
SW7	11/09/2013	0.2	0.03	39	20	98	0.001	8.45	<0.10	0.08	7.32	13.7	0.003	1.8	<0.025
SW1	03/12/2013	0	0.13	10	14	310	0.764	5.9	<0.05	<0.01	7.22	9.4	0.073	1	0.025
SW2	03/12/2013	15.1	4.14	23	38	499	0.001	7.91	0.94	0.03	7.05	9	0.001	19.2	<0.025
SW3	03/12/2013	0	0.63	18	26	121	0.001	11.83	0.28	0.02	7.07	9.2	0.001	2.4	<0.025
SW4	03/12/2013	6.63	2.21	21	35	239	0.001	11.01	0.68	0.02	7.27	9.4	0.009	5.8	<0.025
SW5	03/12/2013	0.02	0.72	18	26	134	0.001	11.26	0.19	0.01	7.35	9.3	0.001	1.4	<0.025
SW6	03/12/2013	0	0.44	16	25	121	0.001	11.75	0.2	0.02	7.2	9.2	0.001	2.2	<0.025
SW7	03/12/2013	0	0.6	29	26	122	0.001	11.69	0.35	0.02	7.2	9.2	0.001	2.8	<0.025

V BH1	Sample Date	Ammonia (as N)	Chloride	Conduct'y @ 20°C	DO (Measure' t)	Nitrate (as N)	Nitrite (as N)	pH	Phenols	Temp	Iron	Pot-assium	Sodium	TOC	TON
BH1	05/02/2013	<0.040	NT	202	NT	<0.100	0.036	7.07	0.016	9.1	NT	2.82	17.1	3	NT
BH3	05/02/2013	0.055	NT	403	NT	<0.100	0.036	7.36	0.016	9.3	<0.019	2.92	17	<3	0.65
BH1	13/03/2013	0.05	36	202	3.21	0.643	<0.010	7.07	<0.002	9.1	NT	3.1	15.2	<3	0.07
BH3	13/03/2013	<0.040	30	387	2.75	0.119	<0.010	7.36	<0.002	9.3	<0.019	3.24	13.7	3	1.33
BH1	30/04/2013	<0.01	35	198	9.63	0.07	<0.01	7.58	<0.02	12	NT	2.34	16	0.016	0.136
BH3	30/04/2013	0.17	31	387	6.55	0.3	0.01	7.59	<0.02	10.4	<0.019	<2.34	15.9	<3	0.12
BH1	11/09/2013	0.3	34	282	5.32	1.05	0.28	7.13	<0.025	14.2	NT	<2.34	14.3	<3	0.31
BH3	11/09/2013	0.1	30	529	5.87	<0.10	0.04	7.19	<0.025	14.2	0.0229	1.35	13.4	3	0.14
BH1	03/12/2013	0	35	216	9.15	0.89	0.01	7.46	2	10.8	NT	3.65	16.5	NT	NT
BH3	03/12/2013	0.2	30	400	6.16	1	0.02	7.45	1	11	NT	1.69	15	NT	NT

V BH1	Sample Date	Atm Pressure	Carbon Dioxide	Methane	Oxygen
LG2	28/02/2013	1025	30.1	69.4	0.5
LG5	28/02/2013	1015	18.8	0.3	9.8
LG6	28/02/2013	1025	10.8	0	10.9
LG7	28/02/2013	1025	27.7	72.1	0.2
LG2	09/04/2013	992	29.4	70.3	0.3
LG5	09/04/2013	992	28.4	27.5	0.5
LG6	09/04/2013	992	20.8	12.8	0.4
LG7	09/04/2013	992	29.9	70.1	0
LG2	09/08/2013	1011	35.1	60.8	1.1
LG5	09/08/2013	1011	7.3	2.8	6.4
LG6	09/08/2013	1011	1.8	0.1	19.6
LG7	09/08/2013	1011	23.3	33.8	5.4
LG2	03/12/2013	1014	32.2	67.4	0
LG5	03/12/2013	1014	32.2	62.3	0
LG6	03/12/2013	1014	0.8	0.1	20.1
LG7	03/12/2013	1014	32.2	67.4	0

V BH1	Sample Date	Ammonia (as N)	BOD	COD	Chloride	Conduct'y @ 20°C	Iron	pH	Pot-assium	Sodium	Temp	TON
L2	05/02/2013	95	5.08	107	245	1884	0.679	6.54	74.8	64.7	9.5	0.036
L3	05/02/2013	19.9	9.42	217	80	414	0.997	6.85	33.7	13.6	9.5	NT
L2	13/03/2013	105	NT	NT	NT	NT	0.0313	NT	65.7	55.5	NT	NT
L3	13/03/2013	24.9	NT	NT	NT	NT	0.277	NT	35.9	14.7	NT	NT
L2	30/04/2013	75	1.84	113	90	1730	0.03	6.73	55	51	12.3	<0.01
L3	30/04/2013	25.1	3.72	121	100	999	2.12	6.7	28	12	13.1	<0.01
L2	11/09/2013	60	23.88	140	56	2160	0.0235	6.54	56.4	44	14.5	0.1
L3	11/09/2013	2.8	16.36	167	39	255	0.148	6.8	25.4	8.51	14.4	1.4
L2	03/12/2013	102	20.68	228	105	1829	0.0377	6.65	73.6	67.5	11.5	<0.01
L3	03/12/2013	6.1	21.08	360	80	264	1.35	6.59	26	14.4	11.6	0.44

V BH1	Sample Date	Ammonia (as N)	Boron	Cadmium	Calcium	Chromium	Copper	Cyanide	Faecal Coliforms (E. coli)	Fluoride	Iron	Lead	Magnesium	Manganese	Mercury	Nitrate (as N)	Nitrite (as N)	Orthophosphate	Potassium	Sulphate	Total Alkalinity	Total Coliforms	Total Oxidised Nitrogen	Total Phosphorus	Zinc
SW1	12/03/2013	0.076	NT	<0.1	24.7	9.87	1.6	NT	NT	NT	<0.019	0.064	3.82	2.67	<0.01	1.41	<0.010	0.041	<2.34	10.4	NT	NT	1.42	NT	<0.41
SW2	12/03/2013	27.5	NT	<0.1	94.1	11	2.15	NT	NT	NT	0.0244	0.084	22.3	650	<0.01	0.519	<0.010	0.033	24	6.1	NT	NT	0.53	NT	1.15
SW3	12/03/2013	0.202	NT	<0.1	18.4	10.1	2.12	NT	NT	NT	0.321	0.267	3.21	13.1	<0.01	0.362	<0.010	0.033	<2.34	4.1	NT	NT	0.37	NT	1.05
SW4	12/03/2013	1.27	NT	<0.1	16.3	10.2	2.22	NT	NT	NT	0.352	0.338	3.4	30	<0.01	0.448	<0.010	0.039	2.55	4.5	NT	NT	0.46	NT	1.15
SW5	12/03/2013	<0.040	NT	<0.1	13.7	9.66	2.15	NT	NT	NT	0.281	0.369	2.69	14.8	<0.01	0.396	<0.010	0.038	<2.34	3.7	NT	NT	0.41	NT	1.07
SW6	12/03/2013	0.13	NT	<0.1	14	9.1	2.18	NT	NT	NT	0.307	0.269	2.69	14.2	0.01	0.386	<0.010	0.042	<2.4	4	NT	NT	0.4	NT	1.05
SW6	12/03/2013	0.237	NT	<0.1	13.6	34.4	2.12	NT	NT	NT	0.309	0.27	2.68	13.3	<0.01	0.358	<0.010	0.037	<2.34	4.6	NT	NT	0.37	NT	1.2
BH1	13/03/2013	0.05	12.5	<0.1	25.7	12.9	2.96	<0.05	84	<0.5	<0.019	0.114	6.05	1.57	<0.01	0.643	<0.010	0.034	2.92	18.1	62	460	0.65	NT	<0.41
BH3	13/03/2013	<0.040	10.2	<0.1	90.9	12.7	<0.85	<0.05	98	<.5	<0.019	0.039	12.1	0.23	<0.01	0.119	<0.010	0.04	<2.34	57	187	392	0.12	NT	<0.41
L2	13/03/2013	105	1020	<0.1	233	13.5	0.991	<0.05	128	<.5	0.0313	0.079	66.4	1550	<0.01	<0.100	<0.010	0.036	65.7	4.9	NT	536	NT	NT	0.607
L3	13/03/2013	24.9	15.3	<0.1	37.3	10.8	2.35	<0.05	180	<.5	0.277	0.237	6.03	597	<0.01	<0.100	<0.010	0.782	35.9	<2	NT	624	NT	NT	4.56

V BH1

*Chuurchtown Landfill Site
Lifford, Co.Donegal*

Month:

March

Location:

SW1

Lab No:

1864

PARAMETERS	UNITS	PARAMETERS	UNITS
Dichlorodifluoromethane	N.D	11 Dichloropropene	N.D
Chloromethane	N.D	Benzene	N.D
Ethyl Chloride/Chloroethane	N.D	12 Dichloroethane	N.D
Vinyl Chloride/Chloroethene	N.D	Trichloroethylene/ Trichloroethene	N.D
Bromomethane	N.D	12 Dichloropropane	N.D
Trichloromonofluoromethane	N.D	Dibromomethane	N.D
Ethyl Ether/Diethyl Ether	N.D	Methyl Methacrylate	N.D
11 Dichloroethene	N.D	Bromodichloromethane	N.D
Acetone	N.D	13 Dichloropropene,cis	N.D
Iodomethane/Methyl Iodide	N.D	MIBK/4 Methyl 2 Pentanone	N.D
Carbon Disulphide	N.D	Toluene	N.D
Allyl Chloride	N.D	13 Dichloropropene,trans	N.D
Methylene Chloride/DCM	N.D	Ethyl Methacrylate	N.D
2-Propenenitrile/Acrylonitrile	N.D	112 Trichloroethane	N.D
Chlormethyl Cyanide/Chloroacetonitrile	N.D	Tetrachloroethylene/ Tetrachloroethene	N.D
Nitrobenzene	N.D	13 Dichloropropane	N.D
Propanenitrile	N.D	2-Hexanone	N.D
Hexachlorobutadiene	N.D	Dibromochloromethane	N.D
Trans-1,2 Dichloroethene	N.D	12 Dibromoethane	N.D
MtBE	N.D	Chlorobenzene	N.D
11 Dichloroethane	N.D	1112 Tetrachloroethane	N.D
22 Dichloropropane	N.D	Ethyl Benzene	N.D
cis-12 Dichloroethene	N.D	m & p Xylene	N.D
2-Butanone	N.D	o Xylene	N.D
Methyl Acrylate	N.D	Styrene	N.D
Bromochloromethane	N.D	Bromoform	N.D
Methacrylonitrile	N.D	Isopropyl Benzene	N.D
Tetrahydrofuran	N.D	Bromobenzene	N.D
Trichloromethane/ Chloroform*	N.D	1122 Tetrachloroethane	N.D
111 Trichloroethane	N.D	123 Trichloropropane	N.D
1-Chlorobutane	N.D	Trans 14 Dichloro 2 Butene, tran	N.D
Carbon Tetrachloride	N.D	Propyl Benzene	N.D
2-Chlorotoluene	N.D	P Isopropyltoluene	N.D
4 Chlorotoluene	N.D	14 Dichlorobenzene	N.D
135 Trimethylbenzene	N.D	12 Dichlorobenzene	N.D
Tert Butyl Benzene	N.D	N Butyl Benzene	N.D
124 Trimethylbenzene	N.D	Hexachloroethane	N.D
Sec Butyl Benzene	N.D	12 Dibromo 3 Chloropropane	N.D
13 Dichlorobenzene	N.D	124 Trichlorobenzene	N.D
		123 Trichlorobenzene	N.D

NOTES

1. ND=Concentration was below the limit of detection

V BH1		<i>Chuurchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	SW2		
Lab No:	1865		
PARAMETERS	UNITS	PARAMETERS	UNITS
Dichlorodifluoromethane	N.D	11 Dichloropropene	N.D
Chloromethane	N.D	Benzene	N.D
Ethyl Chloride/Chloroethane	N.D	12 Dichloroethane	N.D
Vinyl Chloride/Chloroethene	N.D	Trichloroethylene/ Trichloroethene	N.D
Bromomethane	N.D	12 Dichloropropane	N.D
Trichloromonofluoromethane	N.D	Dibromomethane	N.D
Ethyl Ether/Diethyl Ether	N.D	Methyl Methacrylate	N.D
11 Dichloroethene	N.D	Bromodichloromethane	N.D
Acetone	N.D	13 Dichloropropene,cis	N.D
Iodomethane/Methyl Iodide	N.D	MIBK/4 Methyl 2 Pentanone	N.D
Carbon Disulphide	N.D	Toluene	N.D
Allyl Chloride	N.D	13 Dichloropropene,trans	N.D
Methylene Chloride/DCM	N.D	Ethyl Methacrylate	N.D
2-Propenenitrile/Acrylonitrile	N.D	112 Trichloroethane	N.D
Chlormethyl Cyanide/Chloroacetonitrile	N.D	Tetrachloroethylene/ Tetrachloroethene	N.D
Nitrobenzene	N.D	13 Dichloropropane	N.D
Propanenitrile	N.D	2-Hexanone	N.D
Hexachlorobutadiene	N.D	Dibromochloromethane	N.D
Trans-1,2 Dichloroethene	N.D	12 Dibromoethane	N.D
MtBE	N.D	Chlorobenzene	N.D
11 Dichloroethane	N.D	1112 Tetrachloroethane	N.D
22 Dichloropropane	N.D	Ethyl Benzene	N.D
cis-12 Dichloroethene	N.D	m & p Xylene	N.D
2-Butanone	N.D	o Xylene	N.D
Methyl Acrylate	N.D	Styrene	N.D
Bromochloromethane	N.D	Bromoform	N.D
Methacrylonitrile	N.D	Isopropyl Benzene	N.D
Tetrahydrofuran	N.D	Bromobenzene	N.D
Trichloromethane/ Chloroform*	N.D	1122 Tetrachloroethane	N.D
111 Trichloroethane	N.D	123 Trichloropropane	N.D
1-Chlorobutane	N.D	Trans 14 Dichloro 2 Butene, tran	N.D
Carbon Tetrachloride	N.D	Propyl Benzene	N.D
2-Chlorotoluene	N.D	P Isopropyltoluene	N.D
4 Chlorotoluene	N.D	14 Dichlorobenzene	N.D
135 Trimethylbenzene	N.D	12 Dichlorobenzene	N.D
Tert Butyl Benzene	N.D	N Butyl Benzene	N.D
124 Trimethylbenzene	N.D	Hexachloroethane	N.D
Sec Butyl Benzene	N.D	12 Dibromo 3 Chloropropane	N.D
13 Dichlorobenzene	N.D	124 Trichlorobenzene	N.D
		123 Trichlorobenzene	N.D

NOTES

1. ND=Concentration was below the limit of detection

V BH1		<i>Chuurchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	SW3		
Lab No:	1866		
PARAMETERS	UNITS	PARAMETERS	UNITS
Dichlorodifluoromethane	N.D	11 Dichloropropene	N.D
Chloromethane	N.D	Benzene	N.D
Ethyl Chloride/Chloroethane	N.D	12 Dichloroethane	N.D
Vinyl Chloride/Chloroethene	N.D	Trichloroethylene/ Trichloroethene	N.D
Bromomethane	N.D	12 Dichloropropane	N.D
Trichloromonofluoromethane	N.D	Dibromomethane	N.D
Ethyl Ether/Diethyl Ether	N.D	Methyl Methacrylate	N.D
11 Dichloroethene	N.D	Bromodichloromethane	N.D
Acetone	N.D	13 Dichloropropene,cis	N.D
Iodomethane/Methyl Iodide	N.D	MIBK/4 Methyl 2 Pentanone	N.D
Carbon Disulphide	N.D	Toluene	N.D
Allyl Chloride	N.D	13 Dichloropropene,trans	N.D
Methylene Chloride/DCM	N.D	Ethyl Methacrylate	N.D
2-Propenenitrile/Acrylonitrile	N.D	112 Trichloroethane	N.D
Chlormethyl Cyanide/Chloroacetonitrile	N.D	Tetrachloroethylene/ Tetrachloroethene	N.D
Nitrobenzene	N.D	13 Dichloropropane	N.D
Propanenitrile	N.D	2-Hexanone	N.D
Hexachlorobutadiene	N.D	Dibromochloromethane	N.D
Trans-1,2 Dichloroethene	N.D	12 Dibromoethane	N.D
MtBE	N.D	Chlorobenzene	N.D
11 Dichloroethane	N.D	1112 Tetrachloroethane	N.D
22 Dichloropropane	N.D	Ethyl Benzene	N.D
cis-12 Dichloroethene	N.D	m & p Xylene	N.D
2-Butanone	N.D	o Xylene	N.D
Methyl Acrylate	N.D	Styrene	N.D
Bromochloromethane	N.D	Bromoform	N.D
Methacrylonitrile	N.D	Isopropyl Benzene	N.D
Tetrahydrofuran	N.D	Bromobenzene	N.D
Trichloromethane/ Chloroform*	N.D	1122 Tetrachloroethane	N.D
111 Trichloroethane	N.D	123 Trichloropropane	N.D
1-Chlorobutane	N.D	Trans 14 Dichloro 2 Butene, tran	N.D
Carbon Tetrachloride	N.D	Propyl Benzene	N.D
2-Chlorotoluene	N.D	P Isopropyltoluene	N.D
4 Chlorotoluene	N.D	14 Dichlorobenzene	N.D
135 Trimethylbenzene	N.D	12 Dichlorobenzene	N.D
Tert Butyl Benzene	N.D	N Butyl Benzene	N.D
124 Trimethylbenzene	N.D	Hexachloroethane	N.D
Sec Butyl Benzene	N.D	12 Dibromo 3 Chloropropane	N.D
13 Dichlorobenzene	N.D	124 Trichlorobenzene	N.D
		123 Trichlorobenzene	N.D

V BH1		<i>Chuurchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	SW4		
Lab No:	1867		
PARAMETERS	UNITS	PARAMETERS	UNITS
Dichlorodifluoromethane	N.D	11 Dichloropropene	N.D
Chloromethane	N.D	Benzene	N.D
Ethyl Chloride/Chloroethane	N.D	12 Dichloroethane	N.D
Vinyl Chloride/Chloroethene	N.D	Trichloroethylene/ Trichloroethene	N.D
Bromomethane	N.D	12 Dichloropropane	N.D
Trichloromonofluoromethane	N.D	Dibromomethane	N.D
Ethyl Ether/Diethyl Ether	N.D	Methyl Methacrylate	N.D
11 Dichloroethene	N.D	Bromodichloromethane	N.D
Acetone	N.D	13 Dichloropropene,cis	N.D
Iodomethane/Methyl Iodide	N.D	MIBK/4 Methyl 2 Pentanone	N.D
Carbon Disulphide	N.D	Toluene	N.D
Allyl Chloride	N.D	13 Dichloropropene,trans	N.D
Methylene Chloride/DCM	N.D	Ethyl Methacrylate	N.D
2-Propenenitrile/Acrylonitrile	N.D	112 Trichloroethane	N.D
Chlormethyl Cyanide/Chloroacetonitrile	N.D	Tetrachloroethylene/ Tetrachloroethene	N.D
Nitrobenzene	N.D	13 Dichloropropane	N.D
Propanenitrile	N.D	2-Hexanone	N.D
Hexachlorobutadiene	N.D	Dibromochloromethane	N.D
Trans-1,2 Dichloroethene	N.D	12 Dibromoethane	N.D
MtBE	N.D	Chlorobenzene	N.D
11 Dichloroethane	N.D	1112 Tetrachloroethane	N.D
22 Dichloropropane	N.D	Ethyl Benzene	N.D
cis-12 Dichloroethene	N.D	m & p Xylene	N.D
2-Butanone	N.D	o Xylene	N.D
Methyl Acrylate	N.D	Styrene	N.D
Bromochloromethane	N.D	Bromoform	N.D
Methacrylonitrile	N.D	Isopropyl Benzene	N.D
Tetrahydrofuran	N.D	Bromobenzene	N.D
Trichloromethane/ Chloroform*	N.D	1122 Tetrachloroethane	N.D
111 Trichloroethane	N.D	123 Trichloropropane	N.D
1-Chlorobutane	N.D	Trans 14 Dichloro 2 Butene, tran	N.D
Carbon Tetrachloride	N.D	Propyl Benzene	N.D
2-Chlorotoluene	N.D	P Isopropyltoluene	N.D
4 Chlorotoluene	N.D	14 Dichlorobenzene	N.D
135 Trimethylbenzene	N.D	12 Dichlorobenzene	N.D
Tert Butyl Benzene	N.D	N Butyl Benzene	N.D
124 Trimethylbenzene	N.D	Hexachloroethane	N.D
Sec Butyl Benzene	N.D	12 Dibromo 3 Chloropropane	N.D
13 Dichlorobenzene	N.D	124 Trichlorobenzene	N.D
		123 Trichlorobenzene	N.D

V BH1		<i>Chuurchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	SW5		
Lab No:	1868		
PARAMETERS	UNITS	PARAMETERS	UNITS
Dichlorodifluoromethane	N.D	11 Dichloropropene	N.D
Chloromethane	N.D	Benzene	N.D
Ethyl Chloride/Chloroethane	N.D	12 Dichloroethane	N.D
Vinyl Chloride/Chloroethene	N.D	Trichloroethylene/ Trichloroethene	N.D
Bromomethane	N.D	12 Dichloropropane	N.D
Trichloromonofluoromethane	N.D	Dibromomethane	N.D
Ethyl Ether/Diethyl Ether	N.D	Methyl Methacrylate	N.D
11 Dichloroethene	N.D	Bromodichloromethane	N.D
Acetone	N.D	13 Dichloropropene,cis	N.D
Iodomethane/Methyl Iodide	N.D	MIBK/4 Methyl 2 Pentanone	N.D
Carbon Disulphide	N.D	Toluene	N.D
Allyl Chloride	N.D	13 Dichloropropene,trans	N.D
Methylene Chloride/DCM	N.D	Ethyl Methacrylate	N.D
2-Propenenitrile/Acrylonitrile	N.D	112 Trichloroethane	N.D
Chlormethyl Cyanide/Chloroacetonitrile	N.D	Tetrachloroethylene/ Tetrachloroethene	N.D
Nitrobenzene	N.D	13 Dichloropropane	N.D
Propanenitrile	N.D	2-Hexanone	N.D
Hexachlorobutadiene	N.D	Dibromochloromethane	N.D
Trans-1,2 Dichloroethene	N.D	12 Dibromoethane	N.D
MtBE	N.D	Chlorobenzene	N.D
11 Dichloroethane	N.D	1112 Tetrachloroethane	N.D
22 Dichloropropane	N.D	Ethyl Benzene	N.D
cis-12 Dichloroethene	N.D	m & p Xylene	N.D
2-Butanone	N.D	o Xylene	N.D
Methyl Acrylate	N.D	Styrene	N.D
Bromochloromethane	N.D	Bromoform	N.D
Methacrylonitrile	N.D	Isopropyl Benzene	N.D
Tetrahydrofuran	N.D	Bromobenzene	N.D
Trichloromethane/ Chloroform*	N.D	1122 Tetrachloroethane	N.D
111 Trichloroethane	N.D	123 Trichloropropane	N.D
1-Chlorobutane	N.D	Trans 14 Dichloro 2 Butene, tran	N.D
Carbon Tetrachloride	N.D	Propyl Benzene	N.D
2-Chlorotoluene	N.D	P Isopropyltoluene	N.D
4 Chlorotoluene	N.D	14 Dichlorobenzene	N.D
135 Trimethylbenzene	N.D	12 Dichlorobenzene	N.D
Tert Butyl Benzene	N.D	N Butyl Benzene	N.D
124 Trimethylbenzene	N.D	Hexachloroethane	N.D
Sec Butyl Benzene	N.D	12 Dibromo 3 Chloropropane	N.D
13 Dichlorobenzene	N.D	124 Trichlorobenzene	N.D
		123 Trichlorobenzene	N.D

V BH1		<i>Chuurchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	SW6		
Lab No:	1869		
PARAMETERS	UNITS	PARAMETERS	UNITS
Dichlorodifluoromethane	N.D	11 Dichloropropene	N.D
Chloromethane	N.D	Benzene	N.D
Ethyl Chloride/Chloroethane	N.D	12 Dichloroethane	N.D
Vinyl Chloride/Chloroethene	N.D	Trichloroethylene/ Trichloroethene	N.D
Bromomethane	N.D	12 Dichloropropane	N.D
Trichloromonofluoromethane	N.D	Dibromomethane	N.D
Ethyl Ether/Diethyl Ether	N.D	Methyl Methacrylate	N.D
11 Dichloroethene	N.D	Bromodichloromethane	N.D
Acetone	N.D	13 Dichloropropene,cis	N.D
Iodomethane/Methyl Iodide	N.D	MIBK/4 Methyl 2 Pentanone	N.D
Carbon Disulphide	N.D	Toluene	N.D
Allyl Chloride	N.D	13 Dichloropropene,trans	N.D
Methylene Chloride/DCM	N.D	Ethyl Methacrylate	N.D
2-Propenenitrile/Acrylonitrile	N.D	112 Trichloroethane	N.D
Chlormethyl Cyanide/Chloroacetonitrile	N.D	Tetrachloroethylene/ Tetrachloroethene	N.D
Nitrobenzene	N.D	13 Dichloropropane	N.D
Propanenitrile	N.D	2-Hexanone	N.D
Hexachlorobutadiene	N.D	Dibromochloromethane	N.D
Trans-1,2 Dichloroethene	N.D	12 Dibromoethane	N.D
MtBE	N.D	Chlorobenzene	N.D
11 Dichloroethane	N.D	1112 Tetrachloroethane	N.D
22 Dichloropropane	N.D	Ethyl Benzene	N.D
cis-12 Dichloroethene	N.D	m & p Xylene	N.D
2-Butanone	N.D	o Xylene	N.D
Methyl Acrylate	N.D	Styrene	N.D
Bromochloromethane	N.D	Bromoform	N.D
Methacrylonitrile	N.D	Isopropyl Benzene	N.D
Tetrahydrofuran	N.D	Bromobenzene	N.D
Trichloromethane/ Chloroform*	N.D	1122 Tetrachloroethane	N.D
111 Trichloroethane	N.D	123 Trichloropropane	N.D
1-Chlorobutane	N.D	Trans 14 Dichloro 2 Butene, tran	N.D
Carbon Tetrachloride	N.D	Propyl Benzene	N.D
2-Chlorotoluene	N.D	P Isopropyltoluene	N.D
4 Chlorotoluene	N.D	14 Dichlorobenzene	N.D
135 Trimethylbenzene	N.D	12 Dichlorobenzene	N.D
Tert Butyl Benzene	N.D	N Butyl Benzene	N.D
124 Trimethylbenzene	N.D	Hexachloroethane	N.D
Sec Butyl Benzene	N.D	12 Dibromo 3 Chloropropane	N.D
13 Dichlorobenzene	N.D	124 Trichlorobenzene	N.D
		123 Trichlorobenzene	N.D

V BH1		<i>Chuurchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	Month		
Location:	SW7		
Lab No:	1870		
PARAMETERS	UNITS	PARAMETERS	UNITS
Dichlorodifluoromethane	N.D	11 Dichloropropene	N.D
Chloromethane	N.D	Benzene	N.D
Ethyl Chloride/Chloroethane	N.D	12 Dichloroethane	N.D
Vinyl Chloride/Chloroethene	N.D	Trichloroethylene/ Trichloroethene	N.D
Bromomethane	N.D	12 Dichloropropane	N.D
Trichloromonofluoromethane	N.D	Dibromomethane	N.D
Ethyl Ether/Diethyl Ether	N.D	Methyl Methacrylate	N.D
11 Dichloroethene	N.D	Bromodichloromethane	N.D
Acetone	N.D	13 Dichloropropene,cis	N.D
Iodomethane/Methyl Iodide	N.D	MIBK/4 Methyl 2 Pentanone	N.D
Carbon Disulphide	N.D	Toluene	N.D
Allyl Chloride	N.D	13 Dichloropropene,trans	N.D
Methylene Chloride/DCM	N.D	Ethyl Methacrylate	N.D
2-Propenenitrile/Acrylonitrile	N.D	112 Trichloroethane	N.D
Chlormethyl Cyanide/Chloroacetonitrile	N.D	Tetrachloroethylene/ Tetrachloroethene	N.D
Nitrobenzene	N.D	13 Dichloropropane	N.D
Propanenitrile	N.D	2-Hexanone	N.D
Hexachlorobutadiene	N.D	Dibromochloromethane	N.D
Trans-1,2 Dichloroethene	N.D	12 Dibromoethane	N.D
MtBE	N.D	Chlorobenzene	N.D
11 Dichloroethane	N.D	1112 Tetrachloroethane	N.D
22 Dichloropropane	N.D	Ethyl Benzene	N.D
cis-12 Dichloroethene	N.D	m & p Xylene	N.D
2-Butanone	N.D	o Xylene	N.D
Methyl Acrylate	N.D	Styrene	N.D
Bromochloromethane	N.D	Bromoform	N.D
Methacrylonitrile	N.D	Isopropyl Benzene	N.D
Tetrahydrofuran	N.D	Bromobenzene	N.D
Trichloromethane/ Chloroform*	N.D	1122 Tetrachloroethane	N.D
111 Trichloroethane	N.D	123 Trichloropropane	N.D
1-Chlorobutane	N.D	Trans 14 Dichloro 2 Butene, tran	N.D
Carbon Tetrachloride	N.D	Propyl Benzene	N.D
2-Chlorotoluene	N.D	P Isopropyltoluene	N.D
4 Chlorotoluene	N.D	14 Dichlorobenzene	N.D
135 Trimethylbenzene	N.D	12 Dichlorobenzene	N.D
Tert Butyl Benzene	N.D	N Butyl Benzene	N.D
124 Trimethylbenzene	N.D	Hexachloroethane	N.D
Sec Butyl Benzene	N.D	12 Dibromo 3 Chloropropane	N.D
13 Dichlorobenzene	N.D	124 Trichlorobenzene	N.D
		123 Trichlorobenzene	N.D

V BH1		<i>Chuurchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	BH1		
Lab No:	1902		
PARAMETERS	UNITS	PARAMETERS	UNITS
Dichlorodifluoromethane	N.D	Dibromomethane	N.D
Chloromethane	N.D	Methyl Methacrylate	N.D
Ethyl Chloride/Chloroethane	N.D	Bromodichloromethane	N.D
Vinyl Chloride/Chloroethene	N.D	13 Dichloropropene,cis	N.D
Bromomethane	N.D	MIBK/4 Methyl 2 Pentanone	N.D
Trichloromonofluoromethane	N.D	Toluene	N.D
Ethyl Ether/Diethyl Ether	N.D	13 Dichloropropene,trans	N.D
11 Dichloroethene	N.D	Ethyl Methacrylate	N.D
Acetone	N.D	112 Trichloroethane	N.D
Iodomethane/Methyl Iodide	N.D	Tetrachloroethylene/ Tetrachloroethene	N.D
Carbon Disulphide	N.D	13 Dichloropropane	N.D
Allyl Chloride	N.D	2-Hexanone	N.D
Methylene Chloride/DCM	N.D	Dibromochloromethane	N.D
2-Propenenitrile/Acrylonitrile	N.D	12 Dibromoethane	N.D
Chlormethyl Cyanide/Chloroacetonitrile	N.D	Chlorobenzene	N.D
Nitrobenzene	N.D	1112 Tetrachloroethane	N.D
Propanenitrile	N.D	Ethyl Benzene	N.D
Hexachlorobutadiene	N.D	m & p Xylene	N.D
Trans-1,2 Dichloroethene	N.D	o Xylene	N.D
MtBE	N.D	Styrene	N.D
11 Dichloroethane	N.D	Bromoform	N.D
22 Dichloropropane	N.D	Isopropyl Benzene	N.D
cis-12 Dichloroethene	N.D	Bromobenzene	N.D
2-Butanone	N.D	1122 Tetrachloroethane	N.D
Methyl Acrylate	N.D	123 Trichloropropane	N.D
Bromochloromethane	N.D	Trans 14 Dichloro 2 Butene, tran	N.D
Methacrylonitrile	N.D	Propyl Benzene	N.D
Tetrahydrofuran	N.D	2-Chlorotoluene	N.D
Trichloromethane/ Chloroform*	N.D	4 Chlorotoluene	N.D
111 Trichloroethane	N.D	135 Trimethylbenzene	N.D
1-Chlorobutane	N.D	Tert Butyl Benzene	N.D
Carbon Tetrachloride	N.D	124 Trimethylbenzene	N.D
11 Dichloropropene	N.D	Sec Butyl Benzene	N.D
Benzene	N.D	13 Dichlorobenzene	N.D
12 Dichloroethane	N.D	P Isopropyltoluene	N.D
Trichloroethylene/ Trichloroethene	N.D	14 Dichlorobenzene	N.D
12 Dichloropropane	N.D	12 Dichlorobenzene	N.D
N Butyl Benzene	N.D	124 Trichlorobenzene	N.D
Hexachloroethane	N.D	123 Trichlorobenzene	N.D
12 Dibromo 3 Chloropropane	N.D		

V BH1		<i>Chuurchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	BH3		
Lab No:	1903		
PARAMETERS	UNITS	PARAMETERS	UNITS
Dichlorodifluoromethane	N.D	11 Dichloropropene	N.D
Chloromethane	N.D	Benzene	N.D
Ethyl Chloride/Chloroethane	N.D	12 Dichloroethane	N.D
Vinyl Chloride/Chloroethene	N.D	Trichloroethylene/ Trichloroethene	N.D
Bromomethane	N.D	12 Dichloropropane	N.D
Trichloromonofluoromethane	N.D	Dibromomethane	N.D
Ethyl Ether/Diethyl Ether	N.D	Methyl Methacrylate	N.D
11 Dichloroethene	N.D	Bromodichloromethane	N.D
Acetone	N.D	13 Dichloropropene,cis	N.D
Iodomethane/Methyl Iodide	N.D	MIBK/4 Methyl 2 Pentanone	N.D
Carbon Disulphide	N.D	Toluene	N.D
Allyl Chloride	N.D	13 Dichloropropene,trans	N.D
Methylene Chloride/DCM	N.D	Ethyl Methacrylate	N.D
2-Propenenitrile/Acrylonitrile	N.D	112 Trichloroethane	N.D
Chlormethyl Cyanide/Chloroacetonitrile	N.D	Tetrachloroethylene/ Tetrachloroethene	N.D
Nitrobenzene	N.D	13 Dichloropropane	N.D
Propanenitrile	N.D	2-Hexanone	N.D
Hexachlorobutadiene	N.D	Dibromochloromethane	N.D
Trans-1,2 Dichloroethene	N.D	12 Dibromoethane	N.D
MtBE	N.D	Chlorobenzene	N.D
11 Dichloroethane	N.D	1112 Tetrachloroethane	N.D
22 Dichloropropane	N.D	Ethyl Benzene	N.D
cis-12 Dichloroethene	N.D	m & p Xylene	N.D
2-Butanone	N.D	o Xylene	N.D
Methyl Acrylate	N.D	Styrene	N.D
Bromochloromethane	N.D	Bromoform	N.D
Methacrylonitrile	N.D	Isopropyl Benzene	N.D
Tetrahydrofuran	N.D	Bromobenzene	N.D
Trichloromethane/ Chloroform*	N.D	1122 Tetrachloroethane	N.D
111 Trichloroethane	N.D	123 Trichloropropane	N.D
1-Chlorobutane	N.D	Trans 14 Dichloro 2 Butene, tran	N.D
Carbon Tetrachloride	N.D	Propyl Benzene	N.D
2-Chlorotoluene	N.D	12 Dichlorobenzene	N.D
4 Chlorotoluene	N.D	N Butyl Benzene	N.D
135 Trimethylbenzene	N.D	Hexachloroethane	N.D
Tert Butyl Benzene	N.D	12 Dibromo 3 Chloropropane	N.D
124 Trimethylbenzene	N.D	124 Trichlorobenzene	N.D
Sec Butyl Benzene	N.D	123 Trichlorobenzene	N.D
13 Dichlorobenzene	N.D	14 Dichlorobenzene	N.D
P Isopropyltoluene	N.D		

NOTES

1. ND=Concentration was below the limit of detection

V BH1		<i>Chuurchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	L2		
Lab No:	1904		
PARAMETERS	UNITS	PARAMETERS	UNITS
Dichlorodifluoromethane	N.D	Carbon Tetrachloride	N.D
Chloromethane	N.D	11 Dichloropropene	N.D
Ethyl Chloride/Chloroethane	N.D	Benzene	N.D
Vinyl Chloride/Chloroethene	N.D	12 Dichloroethane	N.D
Bromomethane	N.D	Trichloroethylene/ Trichloroethene	N.D
Trichloromonofluoromethane	N.D	12 Dichloropropane	N.D
Ethyl Ether/Diethyl Ether	N.D	Dibromomethane	N.D
11 Dichloroethene	N.D	Methyl Methacrylate	N.D
Acetone	N.D	Bromodichloromethane	N.D
Iodomethane/Methyl Iodide	N.D	13 Dichloropropene,cis	N.D
Carbon Disulphide	N.D	MIBK/4 Methyl 2 Pentanone	N.D
Allyl Chloride	N.D	Toluene	N.D
Methylene Chloride/DCM	N.D	13 Dichloropropene,trans	N.D
2-Propenenitrile/Acrylonitrile	N.D	Ethyl Methacrylate	N.D
Chlormethyl Cyanide/Chloroacetonitrile	N.D	112 Trichloroethane	N.D
Nitrobenzene	N.D	Tetrachloroethylene/ Tetrachloroethene	N.D
Propanenitrile	N.D	13 Dichloropropane	N.D
Hexachlorobutadiene	N.D	2-Hexanone	N.D
Trans-1,2 Dichloroethene	N.D	Dibromochloromethane	N.D
MtBE	N.D	12 Dibromoethane	N.D
11 Dichloroethane	N.D	Chlorobenzene	N.D
22 Dichloropropane	N.D	1112 Tetrachloroethane	N.D
cis-12 Dichloroethene	N.D	Ethyl Benzene	N.D
2-Butanone	N.D	m & p Xylene	N.D
Methyl Acrylate	N.D	o Xylene	N.D
Bromochloromethane	N.D	Styrene	N.D
Methacrylonitrile	N.D	Bromoform	N.D
Tetrahydrofuran	N.D	Isopropyl Benzene	N.D
Trichloromethane/ Chloroform*	N.D	Bromobenzene	N.D
111 Trichloroethane	N.D	1122 Tetrachloroethane	N.D
1-Chlorobutane	N.D	123 Trichloropropane	N.D
Trans 14 Dichloro 2 Butene, tran	N.D	13 Dichlorobenzene	N.D
Propyl Benzene	N.D	P Isopropyltoluene	N.D
2-Chlorotoluene	N.D	14 Dichlorobenzene	N.D
4 Chlorotoluene	N.D	12 Dichlorobenzene	N.D
135 Trimethylbenzene	N.D	N Butyl Benzene	N.D
Tert Butyl Benzene	N.D	Hexachloroethane	N.D
124 Trimethylbenzene	N.D	12 Dibromo 3 Chloropropane	N.D
Sec Butyl Benzene	N.D	124 Trichlorobenzene	N.D
		123 Trichlorobenzene	N.D

NOTES

1. ND=Concentration was below the limit of detection

V BH1		<i>Chuurchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	L3		
Lab No:	1905		
PARAMETERS	UNITS	PARAMETERS	UNITS
Dichlorodifluoromethane	N.D	Carbon Tetrachloride	N.D
Chloromethane	N.D	11 Dichloropropene	N.D
Ethyl Chloride/Chloroethane	N.D	Benzene	N.D
Vinyl Chloride/Chloroethene	N.D	12 Dichloroethane	N.D
Bromomethane	N.D	Trichloroethylene/ Trichloroethene	N.D
Trichloromonofluoromethane	N.D	12 Dichloropropane	N.D
Ethyl Ether/Diethyl Ether	N.D	Dibromomethane	N.D
11 Dichloroethene	N.D	Methyl Methacrylate	N.D
Acetone	N.D	Bromodichloromethane	N.D
Iodomethane/Methyl Iodide	N.D	13 Dichloropropene,cis	N.D
Carbon Disulphide	N.D	MIBK/4 Methyl 2 Pentanone	N.D
Allyl Chloride	N.D	Toluene	36.2
Methylene Chloride/DCM	N.D	13 Dichloropropene,trans	N.D
2-Propenenitrile/Acrylonitrile	N.D	Ethyl Methacrylate	N.D
Chlormethyl Cyanide/Chloroacetonitrile	N.D	112 Trichloroethane	N.D
Nitrobenzene	N.D	Tetrachloroethylene/ Tetrachloroethene	N.D
Propanenitrile	N.D	13 Dichloropropane	N.D
Hexachlorobutadiene	N.D	2-Hexanone	N.D
Trans-1,2 Dichloroethene	N.D	Dibromochloromethane	N.D
MtBE	N.D	12 Dibromoethane	N.D
11 Dichloroethane	N.D	Chlorobenzene	N.D
22 Dichloropropane	N.D	1112 Tetrachloroethane	N.D
cis-12 Dichloroethene	N.D	Ethyl Benzene	N.D
2-Butanone	N.D	m & p Xylene	N.D
Methyl Acrylate	N.D	o Xylene	2.7
Bromochloromethane	N.D	Styrene	N.D
Methacrylonitrile	N.D	Bromoform	N.D
Tetrahydrofuran	N.D	Isopropyl Benzene	N.D
Trichloromethane/ Chloroform*	N.D	Bromobenzene	N.D
111 Trichloroethane	N.D	1122 Tetrachloroethane	N.D
1-Chlorobutane	N.D	123 Trichloropropane	N.D
Trans 14 Dichloro 2 Butene, tran	N.D	13 Dichlorobenzene	N.D
Propyl Benzene	N.D	P Isopropyltoluene	N.D
2-Chlorotoluene	N.D	14 Dichlorobenzene	N.D
4 Chlorotoluene	N.D	12 Dichlorobenzene	N.D
135 Trimethylbenzene	N.D	N Butyl Benzene	N.D
Tert Butyl Benzene	N.D	Hexachloroethane	N.D
124 Trimethylbenzene	N.D	12 Dibromo 3 Chloropropane	N.D
Sec Butyl Benzene	N.D	124 Trichlorobenzene	N.D
		123 Trichlorobenzene	N.D

NOTES

1. ND=Concentration was below the limit of detection

V BH1		<i>Churchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	SW1		
Lab No:	1864		
PARAMETERS	UNITS	PARAMETERS	UNITS
1,2,4-Trichlorobenzene		Bis(2-ethylhexyl)phthalate	
1,2-Dichlorobenzene		Chrysene	
1,3-Dichlorobenzene		Dibenz(a,h)anthracene	
1,4-Dichlorobenzene		Dibenzofuran	
2,4,5-Trichlorophenol		Diethylphthalate	
2,4,6-Trichlorophenol		Dimethylphthalate	
2,4-Dichlorophenol		di-n-Butylphthalate	
2,4-Dimethylphenol		Di-n-octylphthalate	
2,4-Dinitrotoluene		4-Chloroaniline	
2,6-Dinitrotoluene		Fluoranthene	
2-Chloronaphthalene		Fluorene	
2-Chlorophenol		Hexachlorobenzene	
2-Methylnaphthalene		Hexachlorobutadiene	
2-Methylphenol		Hexachloroethane	
2-Nitrophenol		Indeno(1,2,3-c,d)pyrene	
2-Nitroaniline		Isophorone	
4-Bromophenyl Phenyl Ether		Naphthalene	
4-Chloro-3-methylphenol		Nitrobenzene	
4-Chlorophenyl phenyl ether		n-Nitrosodi-n-propylamine	
4-Nitrophenol		Pentachlorophenol	
Acenaphthene		Phenanthrene	
Acenaphthylene		Phenol	
Anthracene		Pyrene	
Benzo(a)anthracene			
Benzo(a)pyrene			
Benzo(b)fluoranthene			
Benzo(g,h,i)perylene			
Benzo(k)fluoranthene			
Benzyl Butyl Phthalate			
Bis(2-chloroethoxy)methane			
Bis(2-chloroethyl)ether			
3-Nitroaniline			

V BH1		<i>Churchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	SW2		
Lab No:	1865		
PARAMETERS	UNITS	PARAMETERS	UNITS
1,2,4-Trichlorobenzene		Bis(2-ethylhexyl)phthalate	
1,2-Dichlorobenzene		Chrysene	
1,3-Dichlorobenzene		Dibenz(a,h)anthracene	
1,4-Dichlorobenzene		Dibenzofuran	
2,4,5-Trichlorophenol		Diethylphthalate	
2,4,6-Trichlorophenol		Dimethylphthalate	
2,4-Dichlorophenol		di-n-Butylphthalate	
2,4-Dimethylphenol		Di-n-octylphthalate	
2,4-Dinitrotoluene		4-Chloroaniline	
2,6-Dinitrotoluene		Fluoranthene	
2-Chloronaphthalene		Fluorene	
2-Chlorophenol		Hexachlorobenzene	
2-Methylnaphthalene		Hexachlorobutadiene	
2-Methylphenol		Hexachloroethane	
2-Nitrophenol		Indeno(1,2,3-c,d)pyrene	
2-Nitroaniline		Isophorone	
4-Bromophenyl Phenyl Ether		Naphthalene	
4-Chloro-3-methylphenol		Nitrobenzene	
4-Chlorophenyl phenyl ether		n-Nitrosodi-n-propylamine	
4-Nitrophenol		Pentachlorophenol	
Acenaphthene		Phenanthrene	
Acenaphthylene		Phenol	
Anthracene		Pyrene	
Benzo(a)anthracene			
Benzo(a)pyrene			
Benzo(b)fluoranthene			
Benzo(g,h,i)perylene			
Benzo(k)fluoranthene			
Benzyl Butyl Phthalate			
Bis(2-chloroethoxy)methane			
Bis(2-chloroethyl)ether			
3-Nitroaniline			

V BH1		Churchtown Landfill Site Lifford, Co.Donegal	
Month:	March		
Location:	SW3		
Lab No:	1866		
PARAMETERS	UNITS	PARAMETERS	UNITS
1,2,4-Trichlorobenzene	<1	Bis(2-ethylhexyl)phthalate	<5
1,2-Dichlorobenzene	<1	Chrysene	<1
1,3-Dichlorobenzene	<1	Dibenz(a,h)anthracene	<1
1,4-Dichlorobenzene	<1	Dibenzofuran	<1
2,4,5-Trichlorophenol	<1	Diethylphthalate	<1
2,4,6-Trichlorophenol	<1	Dimethylphthalate	<1
2,4-Dichlorophenol	<1	di-n-Butylphthalate	<1
2,4-Dimethylphenol	<1	Di-n-octylphthalate	<1
2,4-Dinitrotoluene	<1	4-Chloroaniline	<1
2,6-Dinitrotoluene	<1	Fluoranthene	<1
2-Chloronaphthalene	<1	Fluorene	<1
2-Chlorophenol	<1	Hexachlorobenzene	<1
2-Methylnaphthalene	<1	Hexachlorobutadiene	<1
2-Methylphenol	<1	Hexachloroethane	<1
2-Nitrophenol	<1	Indeno(1,2,3-c,d)pyrene	<1
2-Nitroaniline	<1	Isophorone	<1
4-Bromophenyl Phenyl Ether	<1	Naphthalene	<2
4-Chloro-3-methylphenol	<1	Nitrobenzene	<1
4-Chlorophenyl phenyl ether	<1	n-Nitrosodi-n-propylamine	<1
4-Nitrophenol	<5	Pentachlorophenol	<1
Acenaphthene	<1	Phenanthrene	<1
Acenaphthylene	<1	Phenol	<1
Anthracene	<1	Pyrene	<1
Benzo(a)anthracene	<1		
Benzo(a)pyrene	<1		
Benzo(b)fluoranthene	<1		
Benzo(g,h,i)perylene	<1		
Benzo(k)fluoranthene	<1		
Benzyl Butyl Phthalate	<1		
Bis(2-chloroethoxy)methane	<1		
Bis(2-chloroethyl)ether	<1		
3-Nitroaniline	<1		

V BH1		Churchtown Landfill Site Lifford, Co.Donegal	
Month:	March		
Location:	SW4		
Lab No:	1867		
PARAMETERS	UNITS	PARAMETERS	UNITS
1,2,4-Trichlorobenzene	<1	Bis(2-ethylhexyl)phthalate	<5
1,2-Dichlorobenzene	<1	Chrysene	<1
1,3-Dichlorobenzene	<1	Dibenz(a,h)anthracene	<1
1,4-Dichlorobenzene	<1	Dibenzofuran	<1
2,4,5-Trichlorophenol	<1	Diethylphthalate	<1
2,4,6-Trichlorophenol	<1	Dimethylphthalate	<1
2,4-Dichlorophenol	<1	di-n-Butylphthalate	<1
2,4-Dimethylphenol	<1	Di-n-octylphthalate	<1
2,4-Dinitrotoluene	<1	4-Chloroaniline	<1
2,6-Dinitrotoluene	<1	Fluoranthene	<1
2-Chloronaphthalene	<1	Fluorene	<1
2-Chlorophenol	<1	Hexachlorobenzene	<1
2-Methylnaphthalene	<1	Hexachlorobutadiene	<1
2-Methylphenol	<1	Hexachloroethane	<1
2-Nitrophenol	<1	Indeno(1,2,3-c,d)pyrene	<1
2-Nitroaniline	<1	Isophorone	<1
4-Bromophenyl Phenyl Ether	<1	Naphthalene	<2
4-Chloro-3-methylphenol	<1	Nitrobenzene	<1
4-Chlorophenyl phenyl ether	<1	n-Nitrosodi-n-propylamine	<1
4-Nitrophenol	<5	Pentachlorophenol	<1
Acenaphthene	<1	Phenanthrene	<1
Acenaphthylene	<1	Phenol	<1
Anthracene	<1	Pyrene	<1
Benzo(a)anthracene	<1		
Benzo(a)pyrene	<1		
Benzo(b)fluoranthene	<1		
Benzo(g,h,i)perylene	<1		
Benzo(k)fluoranthene	<1		
Benzyl Butyl Phthalate	<1		
Bis(2-chloroethoxy)methane	<1		
Bis(2-chloroethyl)ether	<1		
3-Nitroaniline	<1		

V BH1		<i>Churchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	SW5		
Lab No:	1868		
PARAMETERS	UNITS	PARAMETERS	UNITS
1,2,4-Trichlorobenzene	<1	Bis(2-ethylhexyl)phthalate	<5
1,2-Dichlorobenzene	<1	Chrysene	<1
1,3-Dichlorobenzene	<1	Dibenz(a,h)anthracene	<1
1,4-Dichlorobenzene	<1	Dibenzofuran	<1
2,4,5-Trichlorophenol	<1	Diethylphthalate	<1
2,4,6-Trichlorophenol	<1	Dimethylphthalate	<1
2,4-Dichlorophenol	<1	di-n-Butylphthalate	<1
2,4-Dimethylphenol	<1	Di-n-octylphthalate	<1
2,4-Dinitrotoluene	<1	4-Chloroaniline	<1
2,6-Dinitrotoluene	<1	Fluoranthene	<1
2-Chloronaphthalene	<1	Fluorene	<1
2-Chlorophenol	<1	Hexachlorobenzene	<1
2-Methylnaphthalene	<1	Hexachlorobutadiene	<1
2-Methylphenol	<1	Hexachloroethane	<1
2-Nitrophenol	<1	Indeno(1,2,3-c,d)pyrene	<1
2-Nitroaniline	<1	Isophorone	<1
4-Bromophenyl Phenyl Ether	<1	Naphthalene	<2
4-Chloro-3-methylphenol	<1	Nitrobenzene	<1
4-Chlorophenyl phenyl ether	<1	n-Nitrosodi-n-propylamine	<1
4-Nitrophenol	<5	Pentachlorophenol	<1
Acenaphthene	<1	Phenanthrene	<1
Acenaphthylene	<1	Phenol	<1
Anthracene	<1	Pyrene	<1
Benzo(a)anthracene	<1		
Benzo(a)pyrene	<1		
Benzo(b)fluoranthene	<1		
Benzo(g,h,i)perylene	<1		
Benzo(k)fluoranthene	<1		
Benzyl Butyl Phthalate	<1		
Bis(2-chloroethoxy)methane	<1		
Bis(2-chloroethyl)ether	<1		
3-Nitroaniline	<1		

V BH1		<i>Churchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	SW6		
Lab No:	1869		
PARAMETERS	UNITS	PARAMETERS	UNITS
1,2,4-Trichlorobenzene	<1	Bis(2-ethylhexyl)phthalate	<5
1,2-Dichlorobenzene	<1	Chrysene	<1
1,3-Dichlorobenzene	<1	Dibenz(a,h)anthracene	<1
1,4-Dichlorobenzene	<1	Dibenzofuran	<1
2,4,5-Trichlorophenol	<1	Diethylphthalate	<1
2,4,6-Trichlorophenol	<1	Dimethylphthalate	<1
2,4-Dichlorophenol	<1	di-n-Butylphthalate	<1
2,4-Dimethylphenol	<1	Di-n-octylphthalate	<1
2,4-Dinitrotoluene	<1	4-Chloroaniline	<1
2,6-Dinitrotoluene	<1	Fluoranthene	<1
2-Chloronaphthalene	<1	Fluorene	<1
2-Chlorophenol	<1	Hexachlorobenzene	<1
2-Methylnaphthalene	<1	Hexachlorobutadiene	<1
2-Methylphenol	<1	Hexachloroethane	<1
2-Nitrophenol	<1	Indeno(1,2,3-c,d)pyrene	<1
2-Nitroaniline	<1	Isophorone	<1
4-Bromophenyl Phenyl Ether	<1	Naphthalene	<2
4-Chloro-3-methylphenol	<1	Nitrobenzene	<1
4-Chlorophenyl phenyl ether	<1	n-Nitrosodi-n-propylamine	<1
4-Nitrophenol	<5	Pentachlorophenol	<1
Acenaphthene	<1	Phenanthrene	<1
Acenaphthylene	<1	Phenol	<1
Anthracene	<1	Pyrene	<1
Benzo(a)anthracene	<1		
Benzo(a)pyrene	<1		
Benzo(b)fluoranthene	<1		
Benzo(g,h,i)perylene	<1		
Benzo(k)fluoranthene	<1		
Benzyl Butyl Phthalate	<1		
Bis(2-chloroethoxy)methane	<1		
Bis(2-chloroethyl)ether	<1		
3-Nitroaniline	<1		

V BH1		<i>Churchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	SW7		
Lab No:	1870		
PARAMETERS	UNITS	PARAMETERS	UNITS
1,2,4-Trichlorobenzene	<1	Bis(2-ethylhexyl)phthalate	<5
1,2-Dichlorobenzene	<1	Chrysene	<1
1,3-Dichlorobenzene	<1	Dibenz(a,h)anthracene	<1
1,4-Dichlorobenzene	<1	Dibenzofuran	<1
2,4,5-Trichlorophenol	<1	Diethylphthalate	<1
2,4,6-Trichlorophenol	<1	Dimethylphthalate	<1
2,4-Dichlorophenol	<1	di-n-Butylphthalate	<1
2,4-Dimethylphenol	<1	Di-n-octylphthalate	<1
2,4-Dinitrotoluene	<1	4-Chloroaniline	<1
2,6-Dinitrotoluene	<1	Fluoranthene	<1
2-Chloronaphthalene	<1	Fluorene	<1
2-Chlorophenol	<1	Hexachlorobenzene	<1
2-Methylnaphthalene	<1	Hexachlorobutadiene	<1
2-Methylphenol	<1	Hexachloroethane	<1
2-Nitrophenol	<1	Indeno(1,2,3-c,d)pyrene	<1
2-Nitroaniline	<1	Isophorone	<1
4-Bromophenyl Phenyl Ether	<1	Naphthalene	<2
4-Chloro-3-methylphenol	<1	Nitrobenzene	<1
4-Chlorophenyl phenyl ether	<1	n-Nitrosodi-n-propylamine	<1
4-Nitrophenol	<5	Pentachlorophenol	<1
Acenaphthene	<1	Phenanthrene	<1
Acenaphthylene	<1	Phenol	<1
Anthracene	<1	Pyrene	<1
Benzo(a)anthracene	<1		
Benzo(a)pyrene	<1		
Benzo(b)fluoranthene	<1		
Benzo(g,h,i)perylene	<1		
Benzo(k)fluoranthene	<1		
Benzyl Butyl Phthalate	<1		
Bis(2-chloroethoxy)methane	<1		
Bis(2-chloroethyl)ether	<1		
3-Nitroaniline	<1		

V BH1

*Chuurchtown Landfill Site
Lifford, Co.Donegal*

Month:

March

Location:

L2

Lab No:

1904

PARAMETERS

UNITS

PARAMETERS

UNITS

1,2,4-Trichlorobenzene	<1	Hexachlorobutadiene	<1
1,2-Dichlorobenzene	<1	Hexachloroethane	<1
1,3-Dichlorobenzene	<1	Indeno(1,2,3-c,d)pyrene	<1
1,4-Dichlorobenzene	<1	Isophorone	<1
2,4,5-Trichlorophenol	<1	Naphthalene	<2
2,4,6-Trichlorophenol	<1	Nitrobenzene	<1
2,4-Dichlorophenol	<1	n-Nitrosodi-n-propylamine	<1
2,4-Dimethylphenol	<1	Pentachlorophenol	<1
2,4-Dinitrotoluene	<1	Phenanthrene	<1
2,6-Dinitrotoluene	<1	Phenol	<1
2-Chloronaphthalene	<1	Pyrene	<1
2-Chlorophenol	<1		
2-Methylnaphthalene	<1		
2-Methylphenol	<1		
2-Nitrophenol	<1		
3&4-Methylphenol	<1		
4-Bromophenyl Phenyl Ether	<1		
4-Chloro-3-methylphenol	<1		
4-Chlorophenyl phenyl ether	<1		
4-Nitrophenol	<5		
Acenaphthene	<1		
Acenaphthylene	<1		
Anthracene	<1		
Benzo(a)anthracene	<1		
Benzo(a)pyrene	<1		
Benzo(b)fluoranthene	<1		
Benzo(g,h,i)perylene	<1		
Benzo(k)fluoranthene	<1		
Benzyl Butyl Phthalate	<1		
Bis(2-chloroethoxy)methane	<1		
Bis(2-chloroethyl)ether	<1		
Bis(2-chloroisopropyl)ether	<1		
Bis(2-ethylhexyl)phthalate	<5		
Chrysene	<1		
Dibenz(a,h)anthracene	<1		
Dibenzofuran	<1		
Diethylphthalate	<1		
Dimethylphthalate	<1		
di-n-Butylphthalate	<1		
Di-n-octylphthalate	<1		
Diphenylamine	<1		
Fluoranthene	<1		
Fluorene	<1		
Hexachlorobenzene	<1		

V BH1		<i>Chuurchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	L3		
Lab No:	1905		
PARAMETERS	UNITS	PARAMETERS	UNITS
1,2,4-Trichlorobenzene		Hexachlorobutadiene	
1,2-Dichlorobenzene		Hexachloroethane	
1,3-Dichlorobenzene		Indeno(1,2,3-c,d)pyrene	
1,4-Dichlorobenzene		Isophorone	
2,4,5-Trichlorophenol		Naphthalene	
2,4,6-Trichlorophenol		Nitrobenzene	
2,4-Dichlorophenol		n-Nitrosodi-n-propylamine	
2,4-Dimethylphenol		Pentachlorophenol	
2,4-Dinitrotoluene		Phenanthrene	
2,6-Dinitrotoluene		Phenol	
2-Chloronaphthalene		Pyrene	
2-Chlorophenol			
2-Methylnaphthalene			
2-Methylphenol			
2-Nitrophenol			
3&4-Methylphenol			
4-Bromophenyl Phenyl Ether			
4-Chloro-3-methylphenol			
4-Chlorophenyl phenyl ether			
4-Nitrophenol			
Acenaphthene			
Acenaphthylene			
Anthracene			
Benzo(a)anthracene			
Benzo(a)pyrene			
Benzo(b)fluoranthene			
Benzo(g,h,i)perylene			
Benzo(k)fluoranthene			
Benzyl Butyl Phthalate			
Bis(2-chloroethoxy)methane			
Bis(2-chloroethyl)ether			
Bis(2-chloroisopropyl)ether			
Bis(2-ethylhexyl)phthalate			
Chrysene			
Dibenz(a,h)anthracene			
Dibenzofuran			
Diethylphthalate			
Dimethylphthalate			
di-n-Butylphthalate			
Di-n-octylphthalate			
Diphenylamine			
Fluoranthene			
Fluorene			
Hexachlorobenzene			

V BH1		<i>Churchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	BH1		
Lab No:	1902		
PARAMETERS	UNITS	PARAMETERS	UNITS
1,2,4-Trichlorobenzene	<1	Bis(2-ethylhexyl)phthalate	<5
1,2-Dichlorobenzene	<1	Chrysene	<1
1,3-Dichlorobenzene	<1	Dibenz(a,h)anthracene	<1
1,4-Dichlorobenzene	<1	Dibenzofuran	<1
2,4,5-Trichlorophenol	<1	Diethylphthalate	<1
2,4,6-Trichlorophenol	<1	Dimethylphthalate	<1
2,4-Dichlorophenol	<1	di-n-Butylphthalate	<1
2,4-Dimethylphenol	<1	Di-n-octylphthalate	<1
2,4-Dinitrotoluene	<1	4-Chloroaniline	<1
2,6-Dinitrotoluene	<1	Fluoranthene	<1
2-Chloronaphthalene	<1	Fluorene	<1
2-Chlorophenol	<1	Hexachlorobenzene	<1
2-Methylnaphthalene	<1	Hexachlorobutadiene	<1
2-Methylphenol	<1	Hexachloroethane	<1
2-Nitrophenol	<1	Indeno(1,2,3-c,d)pyrene	<1
2-Nitroaniline	<1	Isophorone	<1
4-Bromophenyl Phenyl Ether	<1	Naphthalene	<2
4-Chloro-3-methylphenol	<1	Nitrobenzene	<1
4-Chlorophenyl phenyl ether	<1	n-Nitrosodi-n-propylamine	<1
4-Nitrophenol	<5	Pentachlorophenol	<1
Acenaphthene	<1	Phenanthrene	<1
Acenaphthylene	<1	Phenol	<1
Anthracene	<1	Pyrene	<1
Benzo(a)anthracene	<1		
Benzo(a)pyrene	<1		
Benzo(b)fluoranthene	<1		
Benzo(g,h,i)perylene	<1		
Benzo(k)fluoranthene	<1		
Benzyl Butyl Phthalate	<1		
Bis(2-chloroethoxy)methane	<1		
Bis(2-chloroethyl)ether	<1		
3-Nitroaniline	<1		

SEMIVOLATILE ORGANIC COMPOUNDS		<i>Churchtown Landfill Site Lifford, Co.Donegal</i>	
Month:	March		
Location:	BH3		
Lab No:	1906		
PARAMETERS	UNITS	PARAMETERS	UNITS
1,2,4-Trichlorobenzene	<1	Bis(2-ethylhexyl)phthalate	<5
1,2-Dichlorobenzene	<1	Chrysene	<1
1,3-Dichlorobenzene	<1	Dibenz(a,h)anthracene	<1
1,4-Dichlorobenzene	<1	Dibenzofuran	<1
2,4,5-Trichlorophenol	<1	Diethylphthalate	<1
2,4,6-Trichlorophenol	<1	Dimethylphthalate	<1
2,4-Dichlorophenol	<1	di-n-Butylphthalate	<1
2,4-Dimethylphenol	<1	Di-n-octylphthalate	<1
2,4-Dinitrotoluene	<1	4-Chloroaniline	<1
2,6-Dinitrotoluene	<1	Fluoranthene	<1
2-Chloronaphthalene	<1	Fluorene	<1
2-Chlorophenol	<1	Hexachlorobenzene	<1
2-Methylnaphthalene	<1	Hexachlorobutadiene	<1
2-Methylphenol	<1	Hexachloroethane	<1
2-Nitrophenol	<1	Indeno(1,2,3-c,d)pyrene	<1
2-Nitroaniline	<1	Isophorone	<1
4-Bromophenyl Phenyl Ether	<1	Naphthalene	<2
4-Chloro-3-methylphenol	<1	Nitrobenzene	<1
4-Chlorophenyl phenyl ether	<1	n-Nitrosodi-n-propylamine	<1
4-Nitrophenol	<5	Pentachlorophenol	<1
Acenaphthene	<1	Phenanthrene	<1
Acenaphthylene	<1	Phenol	<1
Anthracene	<1	Pyrene	<1
Benzo(a)anthracene	<1		
Benzo(a)pyrene	<1		
Benzo(b)fluoranthene	<1		
Benzo(g,h,i)perylene	<1		
Benzo(k)fluoranthene	<1		
Benzyl Butyl Phthalate	<1		
Bis(2-chloroethoxy)methane	<1		
Bis(2-chloroethyl)ether	<1		
3-Nitroaniline	<1		

APPENDIX C

WATER BALANCE CALCULATION

CHURCHSTOWN WATER BALANCE CALCULATION

Year	Status	Restored area		Temp Restored area RCA(m ²)	Temp Restored area infiltration IRCA(m3)	Total Water	Leachate produced Lo(m3)
		Rainfall (mm)					
2013	Closed	1,144		70,000	24,014	24,014	24,014
Total		1,144					24,014

Assumptions

IRCA=	Temp restored area infiltration of rainfall estimated % (25-30% of annual rainfall,EPA Manual)	30%	%
Temporary restored area	Area of landfill site temporary restored.	70,000	m2
Rainfall Data	Data taken from Met Eireann Station Malin Head, Total Rainfall us	1,144	mm

APPENDIX D

REVISED GAS MODEL RESULTS

Figure D.1 – Total Bulk Landfill Gas Produced 1987-2087

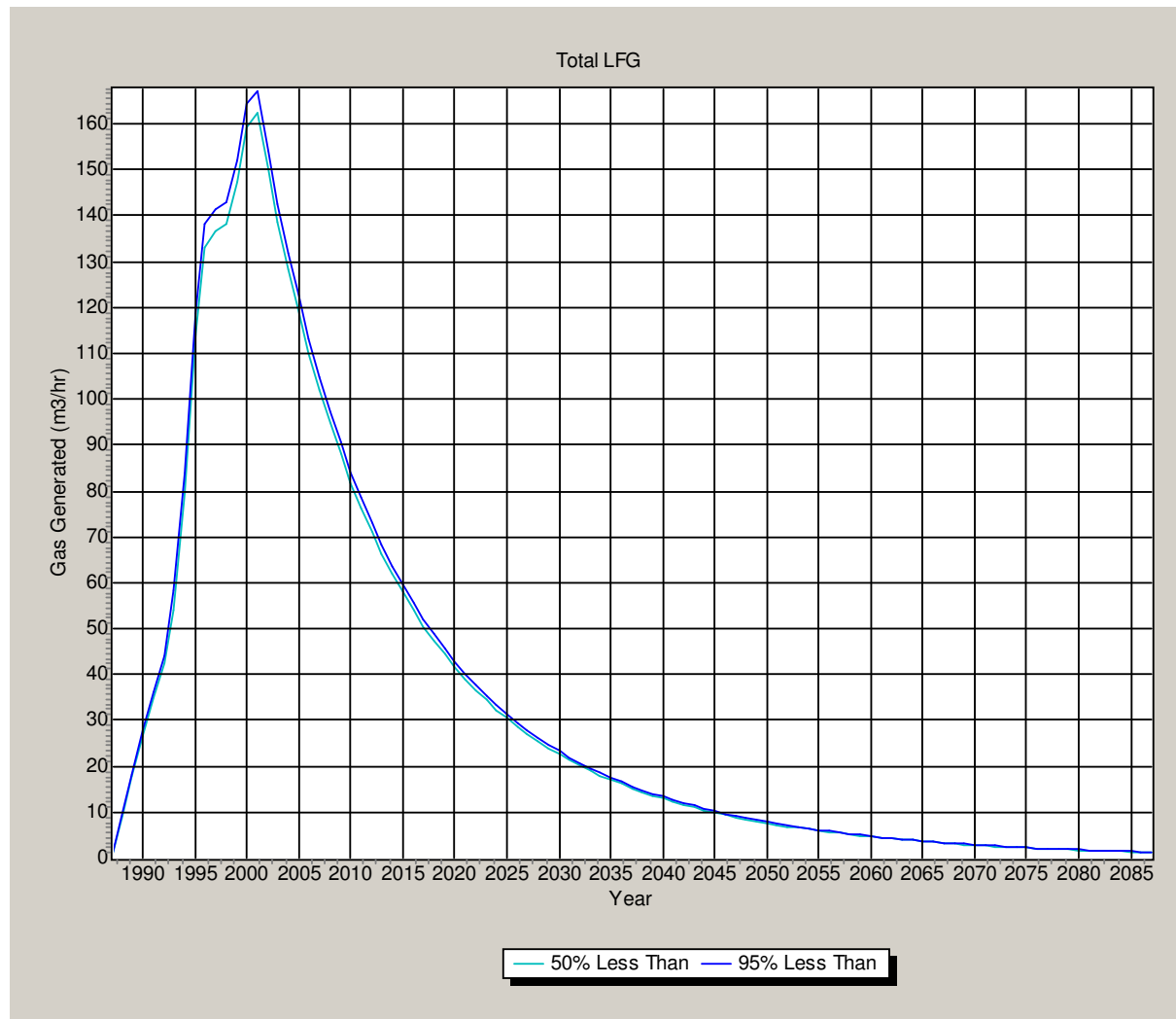
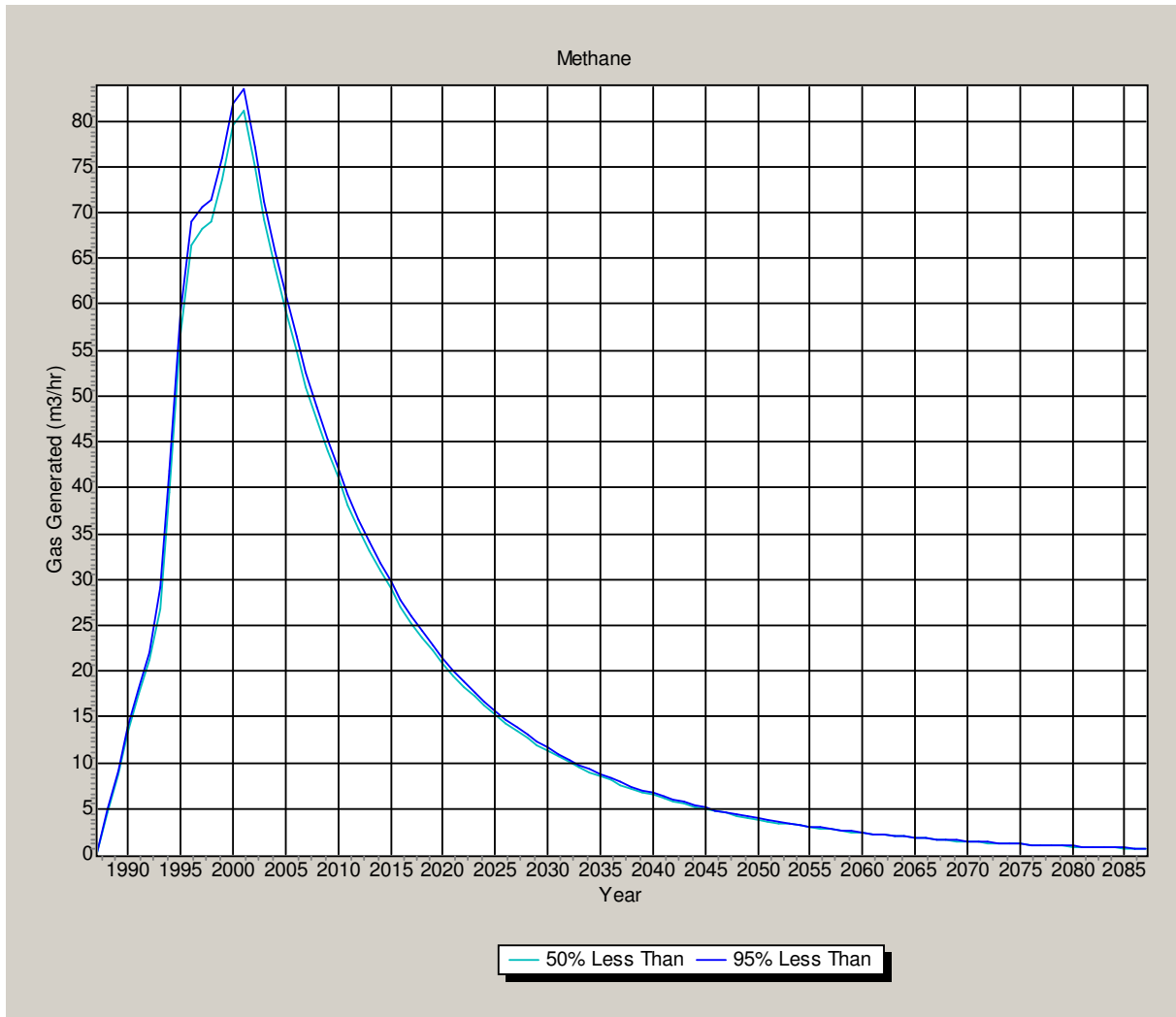


Table D1 – Total Bulk Landfill Gas 1988-2026

Year	M3/hr	Year	M3/hr	Year	M3/hr
1988	9.2	2001	162.43	2014	61.84
1989	17.7	2002	149.97	2015	57.77
1990	26.69	2003	138.59	2016	54.00
1991	35.13	2004	128.20	2017	50.52
1992	42.63	2005	118.70	2018	47.30
1993	53.85	2006	110.01	2019	44.32
1994	79.32	2007	102.05	2020	41.56
1995	113.84	2008	94.75	2021	39.00
1996	133.15	2009	88.05	2022	36.62
1997	136.69	2010	81.91	2023	34.41
1998	138.12	2011	76.26	2024	32.35
1999	147.38	2012	71.05	2025	30.43
2000	159.09	2013	66.26	2026	28.64

Figure D2 - Total Methane Produced 1987-2087



APPENDIX E

E-PRTR Regulations (AER Electronic Reporting System)

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2013
-----------------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	Donegal County Council
Facility Name	Churchtown Landfill
PRTR Identification Number	W0062
Licence Number	W0062-01

Waste or IPPC Classes of Activity

No.	class name
3.1	The initial melting or production of iron and steel
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
3.4	Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.
Address 1	Churchtown
Address 2	Lifford
Address 3	Co. Donegal
Address 4	
	Donegal
Country	Ireland
Coordinates of Location	-7.51908 54.8105
River Basin District	GBNIIENW
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Julie McMahon
AER Returns Contact Email Address	julie.mcmahon@donegalcoco.ie
AER Returns Contact Position	Executive Engineer
AER Returns Contact Telephone Number	0749122787
AER Returns Contact Mobile Phone Number	0872861096
AER Returns Contact Fax Number	0749161304
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
50.1	General

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
--	--

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0062 | Facility Name : Churchtown Landfill | Filename : W0062_2013.xls | Return Year : 2013 |

12/05/2014 13:08

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR		METHOD			QUANTITY			
POLLUTANT		Method Used			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR		METHOD			QUANTITY			
POLLUTANT		Method Used			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	C	OTH	GasSim 1.52	0.0	187000.0	0.0	187000.0
03	Carbon dioxide (CO2)	C	OTH	GasSim 1.52	0.0	0.0	0.0	627000.0
02	Carbon monoxide (CO)	C	OTH	GasSim 1.52	0.0	0.0	0.0	0.129
07	Non-methane volatile organic compounds (NMVOC)	C	OTH	GasSim 1.52	0.0	0.0	0.0	0.338
55	1,1,1-trichloroethane	C	OTH	GasSim 1.52	0.0	0.379	0.0	0.379
56	1,1,2,2-tetrachloroethane	C	OTH	GasSim 1.52	0.0	0.008	0.0	0.008
34	1,2-dichloroethane (EDC)	C	OTH	GasSim 1.52	0.0	0.00943	0.0	0.00943
62	Benzene	C	OTH	GasSim 1.52	0.0	0.00413	0.0	0.00413
58	Trichloromethane	C	OTH	GasSim 1.52	0.0	0.00539	0.0	0.00539
35	Dichloromethane (DCM)	C	OTH	GasSim 1.52	0.0	0.0084	0.0	0.0084
65	Ethyl benzene	C	OTH	GasSim 1.52	0.0	0.0	0.0	0.0
73	Toluene	C	OTH	GasSim 1.52	0.0	0.0153	0.0	0.0153
60	Vinyl chloride	C	OTH	GasSim 1.52	0.0	0.0132	0.0	0.0132
78	Xylenes	C	OTH	GasSim 1.52	0.0	0.00526	0.0	0.00526
15	Chlorofluorocarbons (CFCs)	C	OTH	GasSim 1.52	0.0	0.469	0.0	0.469
14	Hydrochlorofluorocarbons (HCFCs)	C	OTH	GasSim 1.52	0.0	0.573	0.0	0.573
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

RELEASES TO AIR		METHOD			QUANTITY			
POLLUTANT		Method Used			Please enter all quantities in this section in KGs			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
			Method Code	Designation or Description	
Total estimated methane generation (as per site model)		C			N/A
Methane flared					0.0 (Total Flaring Capacity)
Methane utilised in engine/s					0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)					N/A