Comhairle Contae Dhún na nGall
Donegal County Council

Annual Environmental Report

GLENALLA LANDFILL SITE
(Waste Licence Ref. W0125-1)

By
Donegal County Council
For
Environmental Protection Agency

Reporting Period: January to December 2013

May 2014

CONTENTS

1. INTRODUCTION

1.1 This Annual Environmental Report (AER) has been prepared to meet the requirements of Schedule E and F of Waste Licence W0125-1 for Glenalla Landfill. This report provides an environmental review of the site from the 1st of January 2012 to the 31st of December 2013.

1.2 On the 4th of December 2001 the Environmental Protection Agency granted the Council a Waste Licence (registration number W0125-1) for the orderly closure, capping and restoration of the landfill facility, in accordance with the Third Schedule of the Waste Management Act, 1996. Donegal County Council ceased operational activity at Glenalla Landfill Site after the Christmas period in December 2001. Subsequently, Donegal County Council was only permitted to accept inert waste for disposal for the purposes of restoration and aftercare of the site. The quantity of inert waste to be accepted is limited to 46,000 tonnes. The site was formally restored in 2005/6. The Council continues to manage the facility to ensure that activities have not caused environmental pollution and carries out regular environmental monitoring. All monitoring data is submitted to the EPA.

1.3 Glenalla Landfill is an unlined, capped facility, historically operated on the dilute and disperse principle, whereby leachate generated by rainfall infiltration and the decomposition of the landfilled waste is allowed to disperse into the surrounding environment. The landfill site is situated in a low-lying hollow that has been infilled by peat deposits constituting an area of blanket bog. These deposits can represent an effective hydraulic barrier to the downward percolation of leachate. The disposal of waste was undertaken by the landraise method, whereby tipping took place directly onto the stripped ground surface raising its level to form an elevated landform flanked by low graded banks. As mentioned above the site was formally restored in 2005/6.

1.4 The landfill is situated in a fully rural setting, some 4km east of Milford in an area of moderate relief that forms part of the upper catchment of the Glenalla River. This watercourse dissects the southwest boundary of the landfill site. The ground surface of the closed hollow in which the landfill is based generally falls in a south to south westerly direction under a shallow gradient towards the Glenalla River. The downstream extent of the landfill is therefore represented by a small area situated on the southern site boundary. The area to the north and northeast of the site represents the principal upstream area.

2. WASTE ACTIVITIES CARRIED OUT AT THE FACILITY

2.1 Type of Waste

The licensed 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):** This activity is limited to the deposition of inert waste.
- **Class 4 Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons:** This activity is limited too leachate collection and treatment
- **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:** This activity is limited to leachate collection and storage prior to treatment.

3. QUANTITIES AND COMPOSITION OF WASTE

3.1 Quantities of Waste for Restoration

In accordance with Condition 1 of the waste licence only inert waste may be deposited at the facility. A maximum of 46,000 tonnes shall be accepted for the purposes of restoration and aftercare. The quantity of waste received during the reporting period and each previous year at the facility are presented in Table 3.1.

3.2 Glenalla landfill site was closed in 2001 and no material was been imported or exported until restoration works commenced during 2005. The material imported during 2005 was inert and specifically for the purpose of restoring the site.

Table 3.1 Waste quantities accepted (tonnes)

	1998	**1999**	**2000**	**2001**	**2002**	**20036**	**2004**	**2005**
Total	550	1,565	5,722	10,093	0	0	0	34,474*
	2006	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**
Total	0	0	0	0	0	0	0	0

* inert material imported for restoration.

4. SUMMARY REPORT OF EMISSIONS

4.1 Groundwater

4.1.1 Introduction

Groundwater is monitored at the locations shown on drg. no. BL523421/415. GW1 is located up-gradient of the landfill and GW3 and GW2 are immediately downstream. GW2 was re-drilled during 2006. Parameters to be monitored and frequencies as required by the Waste Licence are listed in Appendix A. Since restoration the Agency has agreed to reduce monitoring frequency to bi-annual and the requirement to test for annual frequency parameters has been dropped. All results in tabular and graphical format are contained in Appendix B.

4.1.2 Summary of Results

The site was developed on the dilute and disperse principal, however the groundwater receives some protection against contamination from the peat and clay underlying the landfill and the landfill is now fully restored. Results continue to show negligible levels of contamination up-gradient but that contamination is present in the groundwater environment in the down-gradient wells with a maximum ammonia level present in GW2 of 8.61mg/l. It should be noted that both GW2 and GW3 are close to the unlined waste body.

4.2 Surface Water

4.2.1 Introduction

Surface water monitoring is carried out at SW1, SW2, SW3 & SW4 as shown on Drawing No. BL523421/415. SW1 is reflective of the quality of the surface water upstream of the landfill site. The parameters and frequencies of monitoring required by the Waste Licence are as listed in Appendix A, however since restoration of the site the Agency has agreed to a frequency of bi-annual monitoring and to drop the requirement for the annual parameters. The results of monitoring in tabular and graphical format are presented in Appendix B.

4.2.2 Summary of Results

On the basis of the hydrogeology of the site, surface water represents the principal receptor of leachate emissions from the site. Surface water results previously did indeed indicate that leachate was being released from the facility into the surrounding environment. Following restoration, levels of emissions to surface water had been reducing. Following a rise in downstream ammonia levels at the end of 2008 however an investigation was undertaken into the cause of the increase in downstream leachate emissions. It was eventually discovered that although the leachate pump appeared to be working, it was not delivering leachate to the lagoon. The pump was repaired and its performance monitored, however, it was still problematic throughout this period and so was replaced entirely during December 2011. It had been anticipated as a result of the replacement of the leachate pump in December 2011 that surface water quality would improve during 2012, unfortunately this was not the case. Results in downstream locations for the 2013 period show some signs of leachate entering the

surface water system in January (SW3 ammonia = 3.21mg/l) but no signs of ammonia in the stream immediately downstream of the landfill in December. There were signs of ammonia contamination of the stream from other sources in both the upstream and the remote downstram locations in December. These results represent an improvement (i.e. a significant reduction) in ammonia levels when compared with recent periods.

4.3 Leachate Composition

4.3.1 Leachate is monitored at one location at the facility, L1, as shown on Drawing No. BL523421/415. The results are contained in Appendix B and are within normal ranges when compared with typical leachate quality as reported in EPA Landfill Manual – Landfill Operational Practices, however the leacahate is fairly weak. All parameters are consistent with typical leachate composition and comparable with levels recorded during the last reporting period.

4.4 Landfill gas

4.4.1 Landfill gas is monitored at three locations at the facility as shown on Drawing No. BL523421/415. LG1, LG2, and LG3 are all located in waste. Both LG1 and LG3 were replaced during restoration works. Maintenance works were carried out previously to secure access to these wells. Levels detected during this period are similar to those reported is recent periods. Wells LG1 and LG3 consistently produce good levels of gas (max. methane 67.3% and 74.2% respectively). LG2 continues to produce low levels of gas (max methane = 7.7%).

4.5 Dust Monitoring

4.5.1 Dust monitoring was not undertaken in this reporting period.

5. VOLUME OF LEACHATE PRODUCED AND VOLUME OF LEACHATE DISCHARGED

5.1 A water balance calculation has been undertaken and is contained in Appendix C. This indicates that the estimated volume of leachate produced at the site for 2013 was approximately 2344m^3.

5.2 Leachate is typically tankered from the collection lagoon on the site one day per week. The total volume of leachate tankered during the last reporting period was 4581m^3. Table 6.1 below shows a breakdown of volumes tankered each month and the corresponding rainfall at the Malin Head weather station.

Table 6.1 Breakdown of leachate volumes by month in 2013 relative to rainfall at Malin Head

Month	Leachate Volume (m^3)	Rainfall at Main Head (mm)
January	459.23	140.9
February	366.05	74.1
March	362.17	61.7
April	427.61	61.6
May	361.49	102.5
June	361.40	85.5
July	421.14	56.5
August	353.12	92.6
September	404.32	69.7
October	268.34	103.8
November	348.04	116
December	448.18	178.6
Totals	**4581.09**	**1143.5**

6. TOPOGRAPHICAL SITE SURVEY

6.1 A topographical survey of the site was carried out in May 2006 post restoration. Copies of the survey were forwarded to the Agency in March 2007.

7. REPORTED INCIDENTS AND COMPLAINTS SUMMARIES

7.1 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 six-monthly reporting period or when the results become available.

7.2 Apart from the on-going emissions exceedance reporting referred to above, no incidents have been reported to the Environmental Protection Agency during this reporting period.

7.3 No complaints where received during this reporting period.

8. REVIEW OF NUISANCE CONTROLS

8.1 General

As the facility is not operational, and all areas formerly used for placement of municipal waste have been fully restored, the following list of nuisances are no longer deemed likely to cause problems. Regular site inspections carried out by environmental scientists check for evidence of any of the following. Where any sign of these is detected appropriate control measures would be introduced.

- Flies and vermin;
- Dust;
- Litter;
- Birds;
- Noise;
- Odours.

8.2 EMS

As part of the Environmental Management System a procedure has been developed to ensure that the site is inspected for each of the above-mentioned nuisances on a quarterly basis. This will ensure that should any nuisance arise, the situation is identified and dealt with appropriately.

9. MANAGEMENT STRUCTURE OF SITE

9.1 Organisation

The management of the landfill site is illustrated in the diagram that follows.

9.2 Management Responsibility

Senior Engineer**:** Overall responsibility for the management of the site and ensuring compliance with the Waste Licence. Delegation of authority and responsibility to ensure the effective management of the facility and licence compliance.

Senior Executive Engineer: Responsible for the day-to-day management of the facility as directed by the Senior Engineer.

Executive Environmental Officer: Responsible for overall compliance with EPA Licence.

Scientific Officer: Carry out environmental monitoring of emissions and reporting in accordance with licence requirements.

10. PROGRAMME FOR PUBLIC INFORMATION

10.1 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 Environmental Headquarters at Three Rivers Centre in Lifford. Details regarding this programme are contained in Section 2 of the Environmental Management System Manual.

11. CAPPING AND RESTORATION OF THE SITE.

11.1 The site was fully restored in 2005/6 in accordance with the approved Restoration and Aftercare Plan dated May 2004.

11.2 It was agreed with the Agency in July 2006 that monitoring and reporting frequency would be reduced to bi-annually. It is hoped that when the benefits of restoration have been fully demonstrated that the Council can surrender the licence for this facility.

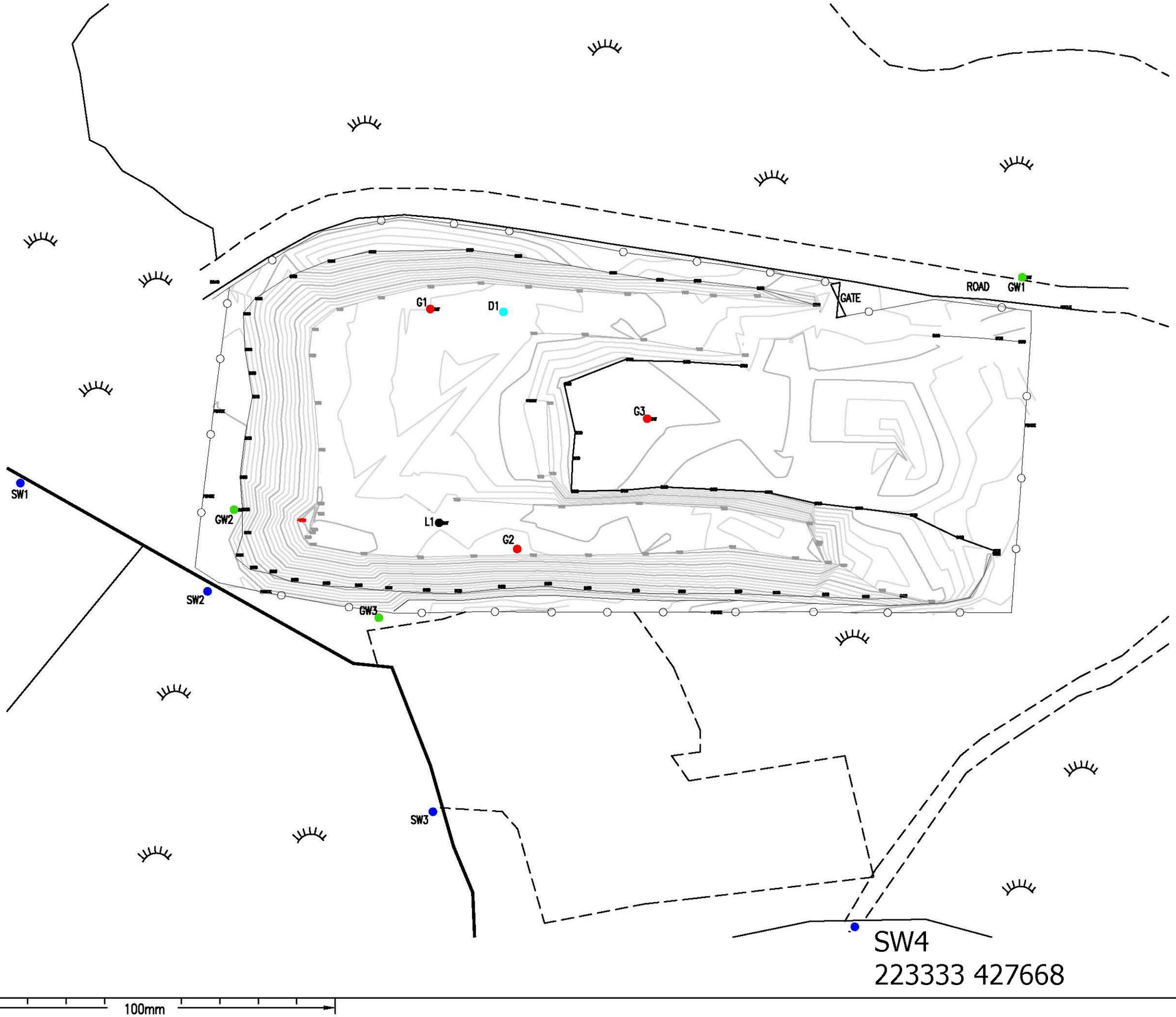
11.3 It was further agreed with the Agency in November 2009 that the annual parameters (including List I & II parameters) could be dispensed with on the restored sites such as Glenalla.

12. REPORT ON STAFF TRAINING

12.1 As the site is no longer operational and is unmanned, there are no staff on site to be trained and no operational activities to which the training would relate.

13. REPORT ON DEVELOPMENT WORK UNDERTAKEN DURING THE REPORTING PERIOD, AND A TIME SCALE FOR THOSE PROPOSED DURING THE COMING YEAR.

13.1 None to report for the period.



NOTES

KEY

- L1 ● LEACHATE MONITORING POINT
- G1 ● GAS MONITORING POINT
- SW1 ● SURFACE WATER MONITORING POINT
- GW1 ● GROUNDWATER MONITORING POINT
- D1 ● DUST MONITORING POINT

MONITORING TYPE	REF NO	GRID REFERENCE
GROUNDWATER	GW1	223321 427966
	GW2	223116 427905
	GW3	223153 427877
LEACHATE	L1	223169 427902
GAS	G1	223167 427958
	G2	223190 427895
	G3	223224 427929
SURFACE WATER	SW1	223060 427912
	SW2	223109 427884
	SW3	223168 427827
DUST	D1	223186 427957

GRID COORDINATES DETERMINIED FROM SITE SURVEY

REV	DESCRIPTION	BY DATE	CHECK DATE
B	UPDATED GRID COORDINATES	JD AUG 05	AMcG AUG 05
A	UPDATED GRID COORDINATES	JD JULY 05	AMcG JULY 05

DRAWN BY RS DATE JULY 03	CHECK BY KAD DATE JULY 03	APPROVED AB DATE JULY 03
PLOT SCALE 1:1000	SCHEDULES	SHEET SIZE A3

CLIENT
DONEGAL COUNTY COUNCIL

PROJECT
GLENALLA LANDFILL SITE

TITLE
MONITORING LOCATIONS

RPS Kirk McClure Morton
CONSULTING ENGINEERS
TEL: 074 916 1927 Email@info.kmm.eu.com FAX:074 916 1928
THE ENTERPRISE FUND BUSINESS CENTRE BALLYRAINE LETTERKENNY CO DONEGAL

ARCHITECT												
DRAWING No.	5234.30/04											
REVISION	A	B										

DWG. STATUS	
PRELIM.	
TENDER	
CONST.	●
RECORD	

APPENDIX A

MONITORING LOCATIONS, FREQUENCIES AND PARAMETERS

Table A1: Monitoring Locations

Type	Label	Location (Grid Ref.)
Landfill Gas	G1	223167 427958
	G2	223190 427895
	G3	223224 427989
Dust	D1	TBC
Groundwater	GW1	223391 427948
	GW2	223154 427882
	GW3	223116 427905
Leachate	L1	223169 427902
Surface Water	SW1	223060 427912
	SW2	223109 427884
	SW3	223168 427827
	SW4	223333 427668

Table A2: Groundwater Parameters & Monitoring Frequencies

Bi-annually	Annually	
Chloride	Boron	Magnesium
Dissolved Oxygen	Cadmium	Manganese
Sodium	Calcium	Mercury
TON	Chromium	Orthophosphate
TOC	Copper	Zinc
Phenols	Cyanide	Residual on evaporation
Ammoniacal Nitrogen	Fluoride	
Electrical Conductivity	Lead	
pH	List I/II substances	
Iron	Sulphate	
Potassium		
Temperature		
Groundwater Level		

Table A3 Surface Water Parameters & Monitoring Frequencies

Bi-Annually	**Annually**	
Chloride	Iron	Magnesium
Dissolved Oxygen	Cadmium	Manganese
COD	Calcium	Mercury
Visual Inspection /Odour	Chromium	Orthophosphate
Ammoniacal Nitrogen	Copper	Zinc
BOD	Sodium	Potassium
Electrical Conductivity	Lead	TON
pH	List I/II substances	Sulphate
Suspended Solids		
Temperature		

APPENDIX B
MONITORING RESULTS

StationName	Sample Date	Ammonia (as N)	BOD	COD	Chloride	Conduct'y @ 20℃	DO (Measurement)	pH	SS	Temp
Glenalla SW 1	25/01/2013	0.07	0.72	40	20	60	12.95	6.65	2	4.8
Glenalla SW 2	25/01/2013	0.1	0.7	45	28	71	12.97	6.84	4.2	4.9
Glenalla SW 3	25/01/2013	3.21	0.61	50	28	132	12.53	6.84	5	4.9
SW @ corner	25/01/2013	0.72	0.59	41	35	125	12.22	6.86	4	5
Glenalla SW 1	04/12/2013	1.08	0.25	25	NT	110	12.33	6.92	1.4	5.7
Glenalla SW 2	04/12/2013	0	0.48	29	NT	86	12.94	6.97	3.2	5.7
Glenalla SW 3	04/12/2013	0	0.05	29	NT	85	12.7	6.98	6	5.6
SW @ corner	04/12/2013	2.38	0.19	24	NT	112	12.39	6.87	2.8	5.7

Station Name	Sample Date	Ammonia (as N)	Chloride	Conduct'y @ 20℃	DO (Measure't)	Iron	pH	Phenols	Potassium	Sodium	Temp	TOC	TON
Glenalla GW 1	25/01/2013	0.04	35	210	538	<0.002	7.1	<0.002	4	23	5.2	10	0.01
Glenalla GW 2	25/01/2013	3.97	44	480	2.02	<0.02	7.84	<0.002	6.9	36.4	8.6	45	0.01
Glenalla GW 3	25/01/2013	3.41	40	374	1.73	<0.02	6.87	<0.002	6.1	34.5	8	38	0.03
Glenalla GW 1	04/12/2013	0	34	256	2.8	<0.019	6.81	<0.025	3.17	18.9	7.9	7.9	0.03
Glenalla GW 2	04/12/2013	8.61	58	590	2.11	1.38	7.45	<0.025	6.83	22.4	8.3	8.3	0
Glenalla GW 3	04/12/2013	0.31	44	385	1.65	0.127	6.94	<0.025	3.07	18.2	8	8	0

Station Name	Sample Date	Ammoniacal Nitrogen	BOD	COD	Chloride	Conduct'y @ 20℃	pH	Temp	TON
L 1	25/01/2013	72	1.18	63	232	1840	7.77	9.9	0.11
L 1	04/12/2013	25.9	3.88	33	44	1650	7.4	8.4	0.05

StationName	SampleDate	Atmospheric Pressure	Carbon Dioxide	Methane	Oxygen
Glenalla LG1	01/03/2013	1009	32.2	67.3	0.1
Glenalla LG2	01/03/2013	1009	1.6	1.5	18.7
Glenalla LG1	10/04/2013	977	32.2	66.8	0.1
Glenalla LG2	10/04/2013	977	6.1	7.7	14.3
Glenalla LG3	10/04/2013	977	25.7	74.2	0.1
Glenalla LG1	30/07/2013	986	32.8	63.9	0.1
Glenalla LG2	30/07/2013	986	5.5	5	13.7
Glenalla LG3	30/07/2013	986	28.4	71.5	0.1
Glenalla LG1	04/12/2013	1004	30.2	63.7	0.1
Glenalla LG2	04/12/2013	1004	3.5	4.3	12.8
Glenalla LG3	04/12/2013	1004	27.4	71.6	0

APPENDIX C

WATER BALANCE CALCULATION

GLENNALLA WATER BALANCE CALCULATION

Year	Status	Rainfall (mm)	Temp Restored area Area	Temp Restored area infiltration IRCA(m3)	Restored area Area	Restored area infiltration IRCA(m3)	Total Water	Leachate produced Lo(m3)	Leachate Volume Tankered
2013	Closed	1,144	0		20,500	2,344	2344	2,344	4,581
Total		1,144						2,344	4,581

Assumptions

IRCA=	Fully Capped/Restored area infiltration of rainfall estimated (2-10% of ER),EPA Manual	10%	%
Restored area	Area capped is 20,500.	20,500	m^2
Rainfall Data	Data taken from Met Eireann Station Malin Head, Total Rainfall used.	1143.5	mm

APPENDIX D

E-PRTR Regulations

(AER Electronic Reporting System)

Environmental Protection Agency

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	Glenalla Landfill Site
PRTR Identification Number	W0125
Licence Number	W0125-01

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	##

Address 1	Glenalla
Address 2	Milford
Address 3	Co Donegal
Address 4	
	Donegal
Country	Ireland
Coordinates of Location	-7.63731 55.0981
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	0749122787
AER Returns Contact Telephone Number	0872861096
AER Returns Contact Mobile Phone Number	0749161304
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	1
User Feedback/Comments	Unmanned site. Landgem- no changes made to input parameters
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

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
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					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
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	landgem-v302	0.0	45205.0	0.0	45205.0
03	Carbon dioxide (CO2)	C	OTH	landgem-v302	0.0	124032.0	0.0	124032.0
02	Carbon monoxide (CO)	C	OTH	landgem-v302	0.0	22.1	0.0	22.1
07	Non-methane volatile organic compounds (NMVOC)	C	OTH	landgem-v302	0.0	291.5	0.0	291.5
55	1,1,1-trichloroethane	C	OTH	landgem-v302	0.0	0.3609	0.0	0.3609
56	1,1,2,2-tetrachloroethane	C	OTH	landgem-v302	0.0	1.041	0.0	1.041
34	1,2-dichloroethane (EDC)	C	OTH	landgem-v302	0.0	0.23	0.0	0.23
62	Benzene	C	OTH	landgem-v302	0.0	0.8365	0.0	0.8365
58	Trichloromethane	C	OTH	landgem-v302	0.0	0.02019	0.0	0.02019
35	Dichloromethane (DCM)	C	OTH	landgem-v302	0.0	6.703	0.0	6.703
65	Ethyl benzene	C	OTH	landgem-v302	0.0	2.753	0.0	2.753
73	Toluene	C	OTH	landgem-v302	0.0	20.25	0.0	20.25
60	Vinyl chloride	C	OTH	landgem-v302	0.0	2.572	0.0	2.572
78	Xylenes	C	OTH	landgem-v302	0.0	7.18	0.0	7.18
57	Trichloroethylene	C	OTH	landgem-v302	0.0	2.074	0.0	2.074
21	**Mercury and compounds (as Hg)**	C	OTH	landgem-v303	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					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
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
247	Acetone	C	OTH	landgem-v302	0.0	2.292	0.0	2.292
					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:

Landfill: Glenalla Landfill Site

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per site model)					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	

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	19 07 03	No	4581.09	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Donegal County Council,D0009-01	Thorn rd,Magheranan ,Letterkenny WWTP,Letterkenny County Donegal,Ireland		

* Select a row by double-clicking the Description of Waste then click the delete button

Link to previous years waste data
Link to previous years waste summary data & percentage change
Link to Waste Guidance