

SECTION D – FACILITY DESIGN

Sub-Section	Title	Location of Information
D.1	Infrastructure	WLA & EIS, Volume I, Section 2
D.2	Facility Operation	EIS, Volume I, Section 2
D.3	Materials Management	EIS, Volume I, Section 2
D.4	Preparatory Works	WLA & WLA Attachment D.4 & EIS, Volume I, Section 2
D.5	Liner System	WLA & WLA Attachment D.5
D.6	Leachate Management	WLA & EIS, Volume I, Section 2
Table D.6.1	On-Site Leachate Treatment Systems	WLA
Table D.6.2	Efficiency of On-Site Leachate Treatment Systems	WLA
Table D.6.3	Off-Site Leachate Removal	WLA
D.7	Landfill Gas Management	WLA & WLA Attachment D.7 & EIS, Volume I, Section 2
Table D.7.1	Volume of Landfill Gas	WLA & WLA Attachment D.7.1
D.8	Capping System	WLA & WLA Attachment D.8 & EIS, Volume I, Section 2

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D. FACILITY DESIGN

Note that plant and infrastructure on site should be capable of dealing with 100% duty and 50% standby capacity of the maximum expected daily tonnage throughput. Maximum tonnage requirements should reflect any daily, weekly and seasonal variation in tonnages. Reference should be made to landfill manual on 'Landfill Site Design' when completing this section.

D.1 Infrastructure

Complete the following table detailing the site infrastructure. Attachment D.1 should contain the appropriate documentation. Information provided should follow the sequence, and use the headings, established in Table D.1. Additional advice on completing this section is provided in the *Guidance Note*.

TABLE D.1. INFRASTRUCTURE

Indicate whether the following infrastructure has been specified and provide the appropriate details in the Comments column.

	y/n	Comments
D.1.a	Y	2.11.1
D.1.b	Y	2.11.2
D.1.c	Y	2.11.3
D.1.d	Y	2.11.4
D.1.e	Y	2.11.5
D.1.f	Y	2.11.6
D.1.g	Y	2.11.7
D.1.h	Y	2.11.8
D.1.i	Y	2.11.9
D.1.j	Y	2.11.10
D.1.k	Y	2.10 & 2.11.11
D.1.l	Y	2.11.12
D.1.m	Y	2.11.13
D.1.n	Y	2.11.14
D.1.o	Y	2.11.15
D.1.p	N	—
D.1.q	Y	2.4 & 2.5
D.1.r	Y	2.5
D.1.s	Y	2.5
D.1.t	Y	2.11.

→ Vol I (EIS)
SECTION 2
FOR D.1.a
↓
D.1.e
INCLUSIVE

D.2 Facility Operation

Describe the plant, methods, processes and operating (including facility, plant and equipment maintenance) procedures for the activity. A development and operational history of the facility should be included.

Attachment D.2 should contain a list of all unit operations to be carried out, including a flow diagram of each unit process and any relevant additional information. In addition, include a complete flow diagram for the whole site incorporating all unit processes.

Attachment included	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	not applicable <input type="checkbox"/>
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(SEE EIS, VOL I, SECTIONS 2.3-2.7, 2.13)

D.3 Materials Management

Attachment.3 should contain a description of each of the process streams, based on the flow diagram given in Attachment D.2. Further advice on completing this section is given in the *Guidance Note*.

Attachment included	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	not applicable <input type="checkbox"/>
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(SEE EIS, VOL I, SECTIONS 2.3-2.7, 2.13).

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D.4 Preparatory Works

Complete the following table detailing preparatory works and provide the information in Attachment D.4. Information provided should follow the sequence, and use the headings, established in Table D.4. Additional advice on completing this section is provided in the *Guidance Note*.

TABLE D.4: PREPARATORY WORKS

State whether details of the following preparatory works have been produced and provide the appropriate details in the Comments column and in additional attachments.

		y/n	Comments
D.4.a	Proposed Construction schedule and sequence	N	ATTACHMENT D4
D.4.b	Method Statement for the construction work	N	ATT. * D4
D.4.c	Safety Statement for construction work (including an assessment of the potential for impact upon existing services e.g. gas, power lines etc.)	N	ATT. D4.
D.4.d	Calculations for material requirements	Y	EIS, VOL I SECTION 2.7.3
D.4.e	Calculations for a material balance	Y	EIS, VOL I SECTION 2.7.2
D.4.f	Stability analyses for the a). Foundation soils b). Slopes c). Soil-membrane interface	a. <input checked="" type="checkbox"/> b. <input checked="" type="checkbox"/> c. <input checked="" type="checkbox"/>	ATT. D4.
D.4.g	Importation of construction materials	Y	VOL I SECTION 2.7.3.
D.4.h	Removal of materials off-site	N	ATT. D4
D.4.i	Formation levels for the site	Y	ATT. D4
D.4.j	Basal gradients for all cells	Y	ATT. D4.
D.4.k	Fixed ordnance datum points to Malin Head or Poolbeg	Y	ATT. D4
D.4.l	Designs for all bunds	Y	ATT. D4
D.4.m	Total remaining capacity of the landfill	Y	ATT. D4
D.4.n	Plan for lifespan of the facility	Y	ATT. D4.

* ATT. = ATTACHMENT.

D.5 Liner System

Complete the following table detailing the liner system and provide the information requested as Attachment D.5. Additional information on completing this section is provided in the *Guidance Note*.

TABLE D.5 LINER SYSTEM

Answer the following questions and provide the appropriate details in the Comments column.

		y/n	Comments
D.5.a	Is the landfill a containment facility?	Y	ATT.* D.S.
D.5.b	Is the type of liner specified?	Y	ATT. D.S.
D.5.c	Are specifications included for all liner materials?	Y	ATT. D.S.
D.5.d	Has a Method Statement been produced?	N	ATT. D.S.
D.5.e	Has a Safety Statement been produced?	N	ATT. D.S.
D.5.f	Has a Quality Control Plan been specified?	Y	ATT. D.S.
D.5.g	Has a Quality Assurance Plan been specified?	Y	ATT. D.S.
D.5.h	Has independent, third-party supervision, testing and controls been specified?	Y	ATT. D.S.
D.5.i	Have access ramps to the cells been designed	Y	ATT. D.S.
D.5.j	Have precommissioning tests been specified?	Y	ATT. D.S.
D.5.k	Has a leak detection survey been specified?	Y	ATT. D.S.

* ATT. = ATTACHMENT.

D.6 Leachate Management

Complete the following table detailing leachate management arrangements. Further information should be provided as set out in the *Guidance Note* and included in Attachment D.6 Leachate monitoring results should be provided on the standard forms presented in Annex 1 and included in the attachment.

TABLE D.6 LEACHATE MANAGEMENT ARRANGEMENTS

Answer the following questions in Table D.6 and provide the appropriate details as listed in the *Guidance Note*.

		y/n	Comments
D.6.a	Is there a Leachate Management Plan?	Y	SEE EIS, VOL I SECTION 2.8.
D.6.b	Have annual quantities of leachate been calculated?	Y	EIS, VOL.I SECTION 2.8.2.
D.6.c	Has the total quantity of leachate been calculated?	Y	EIS VOL.I SECTION 2.8.2.
D.6.d	Has the composition of the leachate been analysed?	Y	EIS. VOL.II APPENDIX 9.
D.6.e	Has the composition of the leachate been predicted?	N	—
D.6.f	Have water balance calculations been performed on actual and projected intakes?	Y	EIS. VOL I TABLE 2.8.1.
D.6.g	Have the size of the cells been specified taking account of the water balance calculations?	N	—
D.6.h	Has a Phasing Plan been developed?	Y	EIS. VOL III DRAWING BRI/110
D.6.i	Has the size of the Working Area been specified?	N	—
D.6.j	Has a leachate collection system been specified?	Y	EIS. VOL I, SECTION 2.7.6. & 2.8.
D.6.k	Has a leachate storage system been specified?	Y	EIS. VOL I, SECTION 2.7.7 & 2.8.
D.6.l	Has a system for monitoring the level of leachate in the waste been designed?	Y	EIS. VOL I, SECTION 2.8.3.4.
D.6.m	Is leachate recirculation proposed/practised?	Y	EIS. VOL I, SECTION 2.8.3.3.
D.6.n	Has leachate removal been specified?	Y	EIS. VOL I, SECTION 2.8.3.5

D.6.1 On-Site Leachate Treatment Systems

A full description of any leachate treatment systems, proposed or existing, with clearly labelled process flow diagrams, should be provided as part of Attachment D.6.1. A programme for the monitoring of aerosols should be described. Additional advice on completing this section is provided in the *Guidance Note*.

TABLE D.6.1 ON-SITE LEACHATE TREATMENT SYSTEMS

Treatment System Type: _____
 (one page per treatment system)

Control ¹ parameter	Equipment ²	Equipment maintenance	Equipment calibration	Equipment back-up

NOT APPLICABLE

Control ¹ parameter	Monitoring to be carried out ³	Monitoring equipment	Monitoring equipment calibration

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- ¹ List the operating parameters of the treatment system which control the function of the treatment system.
- ² List the equipment necessary for the proper function of the treatment system.
- ³ List the monitoring of the control parameter to be carried out.

D.6.2 Efficiency of On-Site Leachate Treatment Systems

The efficiency of existing on-site leachate treatment systems should be assessed, where appropriate, using the Standard Forms provided in Annex 1. Where a leachate treatment system is proposed, a suitable monitoring regime for assessing its efficiency should be specified. Attachment D.6.2 should contain the appropriate documentation. Additional advice on completion of this section is provided in the *Guidance Notes*.

Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
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D.6.3 Off-site Leachate Removal

This part should only be completed when leachate is removed off-site to a sewage treatment works or other treatment or disposal system.

TABLE D.6.3 OFF-SITE LEACHATE REMOVAL

Year	Leachate Quantity (m ³)	Carrier (Method, Location & Undertaker)	Disposal/Treatment Location (Method, Location & Undertaker)

NOT APPLICABLE

Attachment D.6.3 should contain a characterisation of the leachate being removed from site. The relevant Standard Forms provided in Annex 1, should be used and included in the attachment.

Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
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D.7 L landfill Gas Management

All landfill sites should have suitable arrangements for the management of landfill gas. Attachment D.7 should contain the appropriate documentation. Information provided should follow the sequence, and use the headings, established in Table D.7. Additional advice on completing this section is provided in the *Guidance Note*. The following table should be completed.

TABLE D.7. LANDFILL GAS MANAGEMENT

Answer the questions and provide the appropriate details in the Comments column.

		y/n	Comments
D.7.a	Is there a Landfill Gas Management Plan?	Y	SEE EIS VOL. I SECTION 2.9.
D.7.b	Is there an active (i.e., pumped) landfill gas extraction system?	N	ATT. D.7 & EIS VOL. I SECTION 2.9.
D.7.c	Does the active system cover all of the filled area?	Y	ATT. D.7
D.7.d	Is gas flaring undertaken at the site?	N	ATT. D.7 & VOL. I (EIS) SECTION 2.9.4.4.
D.7.e	Is there a passive venting system?	N	ATT. D.7 & EIS VOL. I SECTION 2.9.4.4.
D.7.f	Does the passive system cover all of the filled area?	N	ATT. D.7
D.7.g	Is landfill gas used to generate energy at the site?	N	ATT. D.7 & EIS VOL. I SECTION 2.9.4.4.
D.7.h	Have emissions from the flarestack and utilisation plant been assessed for source, composition, quantity and level and rate?	N	ATT. D.7.
D.7.i	Has a maintenance programme for the control system been specified?	N	ATT. D.7
D.7.j	Has a condensate removal system been designed?	N	ATT. D.7.
D.7.k	Have gas alarm systems been installed in the site buildings?	N	ATT. D.7 & EIS VOL. I SECTION 2.9.4.4.
D.7.l	Have measures been installed to prevent landfill gas migration (e.g. barriers)?	Y	EIS. VOL. I SECTION 2.9.4.4.
D.7.m	Has a time-scale been proposed for the installation of landfill gas infrastructure?	Y	ATT. D.7.

*ATT. = ATTACHMENT

D.7.1 Volume of Landfill Gas

Complete the following table providing estimates of the volumes of landfill gas which will be produced by the waste disposed of in the site. Use additional sheets if necessary. Additional advice on the completion of this section is provided in the *Guidance Notes*.

TABLE D.7.1 LANDFILL GAS VOLUMES

Year ¹	Quantity per year (m ³)

SEE ATTACHMENT D.7.1

¹These may be assigned a number, i.e. Year 1, Year 2, etc. where Year 1 is the first year of operation of the site, or may be actual i.e., 1997, 1998 etc.

Total Quantities of Landfill Gas to be Produced (m³)	
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OVER 30 YEARS
(SCENARIO 2)
CA. 100 MILLION m³
IN TOTAL OF
LANDFILL GAS.

The nature, and basis of, these calculations should be detailed in Attachment D.7.1.

D.7.2 Landfill Gas Composition

Provide an assessment of the composition of landfill gas arising from the site. Details should be included in Attachment D.7.2 using the Standard Forms, where appropriate, as provided in Annex 1.

Attachment included	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	not applicable <input type="checkbox"/>
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SEE EIS VOL I
SECTION 2.9.3
(TABLE 2.9.3)

D.8 Capping System

Complete the following table detailing the design of the capping system. Attachment D.8 should contain the appropriate documentation. Information provided should follow the sequence, and use the headings, established in Table D.8 Additional advice on completing this section is provided in the *Guidance Note*.

TABLE D.8 CAPPING SYSTEM

Provide the appropriate details in the Comments column.

		y/n	Comments
D.8.a	Has the Capping System been designed?	Y	SEE EIS VOL I SECTION 2.7.8.
D.8.b	Does the Capping System include a flexible membrane liner?	N	ATT.* D.8.
D.8.c	Have all capping materials been specified?	Y	EIS. VOL.I. SECTION 2.7.8.
D.8.d	Has a Method Statement for construction been produced?	N	ATT. D.8.
D.8.e	Has a Safety Statement for construction been produced?	N	ATT. D.8.
D.8.f	Has a Quality Control Plan been produced?	N	ATT. D.8.
D.8.g	Has a Quality Assurance Plan been produced?	N	ATT. D.8.
D.8.h	Has a programme for monitoring landfill stability been developed?	Y	ATT. D.8.
D.8.i	Has a programme for monitoring landfill settlement been developed?	Y	ATT. D.8.
D.8.j	Has a programme for an Annual Topographical Survey been developed?	Y	ATT. D.8.
D.8.k	Has the daily cover been specified?	Y	ATT. D.8.
D.8.l	Has the intermediate cover been specified?	Y	ATT. D.8.
D.8.m	Has the temporary capping been specified?	Y	ATT. D.8.

*ATT. = ATTACHMENT.

ATTACHMENT D.4 – PREPARATORY WORKS

D.4.a Proposed Construction Schedule and Sequence

This will be completed prior to construction.

D.4.b Method Statement for the Construction Work

This will be completed prior to construction.

D.4.c Safety Statement for Construction Work

This will be completed prior to construction.

D.4.f Stability Analyses for the:

a) Foundation Soils

Stable, but will be confirmed as part of detailed design, prior to construction.

b) Slopes

Stable, but will be confirmed as part of detailed design, prior to construction.

c) Soil-Membrane Interface

Stable, but will be confirmed as part of detailed design, prior to construction.

D.4.i Formation Levels for the Site

The formation levels for the site will be at a minimum of 1-metre above the groundwater table on the site.

See Drawing BRI/110, EIS Volume III.

D.4.j Basal Gradients for all Cells

There will be a basal gradient of 1-2% for all cells.

See Drawing BRI/110, EIS Volume III.

D.4.k Fixed Ordnance Datum Points to Malin Head or Poolbeg

The ordnance datum points have been fixed to Malin Head.

D.4.l Designs for all Bunds

The design for all bunds will include low earth structures with side slope batters no steeper than 1V:1H.

D.4.m Total Remaining Capacity of the Landfill

The total capacity for the landfill is estimated at ca. 920,000m³.

See EIS Volume I Table 2.7.1.

D.4.n Plan for Lifespan of the Facility

The lifespan of the proposed facility is estimated as ca. 10-years.

See EIS Volume I Table 2.13.1.

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ATTACHMENT D.5 – LINER SYSTEM

D.5.a Landfill as a Containment Facility

The landfill is designed to be a containment facility with a composite base and floor lining system, and leachate collection and evacuation system.

For further details, see EIS Volume I, Section 2.7.

D.5.b Type of Liner

A composite liner is proposed, including a mineral layer.

The mineral soil layer shall be minimum of 1 metre thick and shall have a coefficient of permeability (K) of less than 1×10^{-9} m/sec.

D.5.c Specifications for all Liner Materials

Specifications will be performance based. Industry standard products will be used. Outline specifications for all liner systems will be prepared and supplied to the EPA prior to construction.

D.5.d Method Statement

A method statement will be required. A qualified engineer and/or contractors will prepare method statements prior to construction of the liner.

D.5.e Safety Statement

A safety statement will be required. The contractor constructing the liner system shall prepare a "Safety Statement", prior to construction of the liner.

D.5.f Quality Control Plan

A quality control plan will be required. This shall be prepared following licensing and prior to the commencement of liner construction.

D.5.g Quality Assurance Plan

A quality assurance plan will be required. This shall be prepared following licensing and prior to the commencement of liner construction.

D.5.h Specifications for Independent, Third-Party Supervision, Testing and Controls

Independent, third-party supervision, testing and control of liner construction will be required. The third party will be selected prior to construction.

D.5.i Design of Access Ramps to the Cells

Access ramps to the tipping area will be carefully built with inert material that does not contain sharp fragments or objects that could potentially puncture the lining system. The ramps will be built so their horizontal upper surface extends out beyond the toe of the lined slope. This will be done to minimise shear loading on the lined slope.

D.5.j Precommissioning Tests

Precommissioning tests will be required and prepared prior to construction of the liner.

D.5.k Leak Detection Survey

A pre-commissioning test of the liner in the form of leak detection survey (LDS) will be carried out as part of the HDPE liner CQA/CQC. It shall be specified and the details shall follow, following licensing and prior to construction of the lining system. All defects discovered by the LDS will be repaired and signed off before wastes are accepted.

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ATTACHMENT D.7 – LANDFILL GAS MANAGEMENT

D.7.b Active Landfill Gas Extraction System

An active landfill gas extraction system is proposed.

D.7.c Coverage of Active Landfill Gas Extraction System

The active landfill gas extraction system will cover all of the filled area in due course.

D.7.d Gas Flaring

Gas flaring is proposed to be undertaken on the site in the future.

D.7.e Passive Venting System

A passive venting system is proposed for the site in the future.

D.7.f Coverage of Passive Venting System

The proposed passive venting system will cover all of the filled area in due course.

D.7.g Use of Landfill Gas to Generate Energy

It is possible that the landfill gas may be used to generate energy in the future.

D.7.h Emissions from Flare stack and Utilisation Plant

There is no existing flare stack or utilisation plant on the site.

D.7.i Maintenance Programme for the Control System

A maintenance programme for the control system will be developed on granting of the Waste Licence for the site.

D.7.j Condensate Removal System

A condensate removal system will be designed in due course.

D.7.k Gas Alarm Systems

Gas alarm system installation in the site buildings has been proposed.

D.7.m Time-Scale for Installation of Landfill Gas Infrastructure

The landfill gas infrastructure will be installed following 2 years of operation.

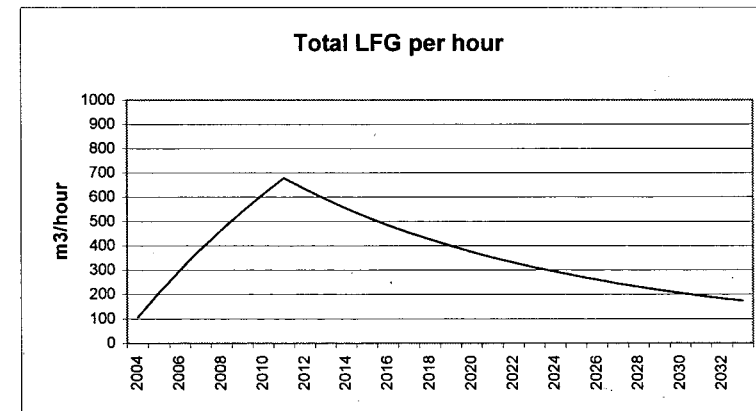
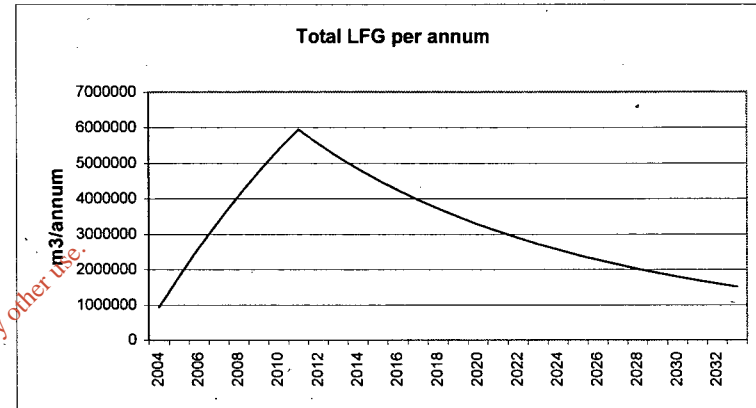
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Attachment D.7.1 (Table D.7.1): Landfill Gas Volumes 2004 - 2033 (GasSim Model)

GasSim generated csv file

Generated gas results from C:\Program Files\Golder Associates\GasSim\ERML\Brownfield\Scenario 2. Project file created 11/03/2004 12:34:20

Iteration	Simulation	Carbon Dioxide (m3/hr)	Methane (m3/hr)	Hydrogen (m3/hr)	LFG m3/hour	LFG m3/day	LFG m3/annum
1	0	0	0	0			
	2004	53.3093	52.9527	0.713168	106.98	2,567.40	937,102.47
	2005	103.113	102.756	0.713168	206.58	4,957.97	1,809,659.79
	2006	149.524	149.167	0.713168	299.40	7,185.70	2,622,780.51
	2007	192.809	192.452	0.713168	385.97	9,263.38	3,381,133.71
	2008	233.21	232.853	0.713168	466.78	11,202.63	4,088,959.23
	2009	270.948	270.592	0.713168	542.25	13,014.08	4,750,137.75
	2010	306.227	305.87	0.713168	612.81	14,707.44	5,368,217.07
	2011	339.23	338.873	0.713168	678.82	16,291.59	5,946,429.63
	2012	316.817	316.817	0	633.63	15,207.22	5,550,633.84
	2013	295.959	295.959	0	591.92	14,206.03	5,185,201.68
	2014	276.684	276.684	0	553.37	13,280.83	4,847,503.68
	2015	258.855	258.855	0	517.71	12,425.04	4,535,139.60
	2016	242.349	242.349	0	484.70	11,632.75	4,245,954.48
	2017	227.055	227.055	0	454.11	10,898.64	3,978,003.60
	2018	212.872	212.872	0	425.74	10,217.86	3,729,517.44
	2019	199.707	199.707	0	399.41	9,585.94	3,498,856.64
	2020	187.477	187.477	0	374.95	8,998.90	3,284,597.04
	2021	176.107	176.107	0	352.21	8,453.14	3,085,394.64
	2022	165.526	165.526	0	331.05	7,945.25	2,900,015.52
	2023	155.673	155.673	0	311.35	7,472.30	2,727,390.96
	2024	146.489	146.489	0	292.98	7,031.47	2,566,487.28
	2025	137.923	137.923	0	275.85	6,620.30	2,416,410.96
	2026	129.927	129.927	0	259.85	6,236.50	2,276,321.04
	2027	122.458	122.458	0	244.92	5,877.98	2,145,464.16
	2028	115.475	115.475	0	230.95	5,542.80	2,023,122.00
	2029	108.942	108.942	0	217.88	5,229.22	1,908,663.84
	2030	102.827	102.827	0	205.65	4,935.70	1,801,529.04
	2031	97.0975	97.0975	0	194.20	4,660.68	1,701,148.20
	2032	91.7267	91.7267	0	183.45	4,402.88	1,607,051.78
	2033	86.6888	86.6888	0	173.38	4,161.06	1,518,787.78
	31	81.96	81.96	0			
	32	77.5187	77.5187	0			
	33	73.3449	73.3449	0			96,437,625.37
	34	69.4204	69.4204	0			
	35	65.7281	65.7281	0	Other paper	20.00	
	36	62.2525	62.2525	0	Card	8.00	
	37	58.9791	58.9791	0	textiles	4.00	
	38	55.8946	55.8946	0	Wood	14.00	
	39	52.9868	52.9868	0	Other Putrscible	0.00	
	40	50.2441	50.2441	0	Non Biodegra	54.00	
	41	47.656	47.656	0		100.00	
	42	45.2128	45.2128	0			
	43	42.9054	42.9054	0			



ATTACHMENT D.8 – CAPPING SYSTEM

D.8.b Capping System – Flexible Membrane Liner

There is a possibility that a flexible membrane liner will be used, but at present, a geosynthetic clay liner is proposed.

D.8.d Method Statement for Construction

A Method Statement for construction shall be prepared and submitted prior to installation of the capping layers.

D.8.e Safety Statement for Construction

The landfill operator or contractor responsible for capping shall prepare a Safety Statement for construction of the capping layers.

D.8.f Quality Control Plan

A Quality Control Plan shall be prepared and submitted prior to installation of the capping layers.

D.8.g Quality Assurance Plan

A Quality Assurance Plan shall be produced at the same time as the QA Plan for the lining system.

D.8.h Programme for Monitoring Landfill Stability

The stability of the landfill will be monitored weekly by technical personnel. Any unusual conditions will be logged in the site diary and reported to the site manager. An annual topographic survey will be carried out.

D.8.i Programme for Monitoring Landfill Settlement

Landfill settlement will be monitored by an annual topographic survey.

D.8.j Programme for Annual Topographic Survey

A topographic survey will be carried out annually.

D.8.k Daily Cover

Internal bunds, daily and intermediate cover will be drawn from processed material on site and/or imported waste materials. Sandy subsoil, or crushed bricks and concrete will be used for daily cover.

D.8.l Intermediate Cover

Clay/silt subsoil will be used for intermediate cover.

D.8.m Temporary Capping

Temporary capping of 0.5 metre of clay/silt material will be placed on the interim slopes and surfaces of waste. Temporary capping will be removed or punctured, prior to deposition of more waste.

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