



**FURTHER INFORMATION REQUEST  
ON WASTE LICENCE REVIEW AT DERRYCLURE  
LANDFILL - LICENCE REGISTER NO. W0029-04**

**OFFALY COUNTY COUNCIL**

**ORIGINAL**

**FEBRUARY 2010**



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# FURTHER INFORMATION REQUEST ON WASTE LICENCE REVIEW AT DERRYCLURE LANDFILL - LICENCE REGISTER NO. W0029-04

## REVISION CONTROL TABLE

User is Responsible for Checking The Revision Status Of This Document

Rev Nr.	Description of Changes	Prepared by	Checked by	Approved by	Date
0	Issue to Client	COC/EBT	SM <i>SM</i>	BG <i>BG</i>	02/02/10

*Client:* Offaly County Council

*Keywords:* landfill, further information, waste licence review, environmental monitoring

*Abstract:* This report was prepared following a further information request by the Environmental Protection Agency (EPA). This report details the replies to the Article 14 compliance requirements as requested by the EPA.

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## 1. INTRODUCTION

This report is being prepared in response to a request for information by the Environmental Protection Agency (EPA) on the 22 December 2009, under Article 14(2)(b)(ii) of the Waste Management (Licensing) Regulations. Fehily Timoney & Co. (FTC) had previously prepared and submitted a waste licence review application for the intensification of waste acceptance at Derryclure Landfill, from 40,000 tonnes to 100,000 tonnes of waste per annum. This requested information is additional to the waste licence review application and this response should be read in conjunction that report.

The objective of this report is to answer the queries raised by the EPA (See EPA Letter in Appendix 1). The approach taken is that each of the EPA requested information is outlined and answered in turn.

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## 2. INFORMATION REQUESTS AND REPLIES

### 2.1 Task 1: Submit an updated map showing all proposed environmental monitoring locations; this map shall also indicate the location of the leachate storage lagoon and the gas flare.

A revised map showing the proposed monitoring locations to be monitored under the waste licence review W0029-04 is provided in Appendix 2.

There are a number of existing monitoring sites that are no longer actively monitored (as seen in Section 2.4 of this report) and these monitoring locations have been removed from the proposed monitoring location map (CE07-286-007 Rev C).

The proposed additional landfill gas wells along the perimeter of the new cells have been re-named from the original version of this map (CE07-286-007 Rev B) for clarity and start at GP31 onwards.

This map updates CE07-286-007 Rev B of the waste licence review application, illustrating indicative monitoring locations. As the site develops, the location and establishment of these points will be agreed with the Agency through the SEW process.

The locations of the leachate lagoon and the gas flare on site is outlined on this drawing (CE07-286-007 Rev C). The monitoring points for the leachate lagoon and the gas flare have also been added to this map revision.

### 2.2 Task 2: Provide details on the status of the proposed gas utilisation technology.

Pending the grant of the intensification of waste acceptance at the landfill facility, details of gas utilisation technology is on hold. Following a decision on this proposal, a feasibility study on the potential for gas utilisation at the facility will be undertaken and this will be submitted to the Agency.

### 2.3 Task 3: Please verify the total void space (m<sup>3</sup>) of the landfill over the entire life of the facility.

In the EIS submitted with the waste licence review application, it was estimated that there is approximately 954,000 tonnes of landfill capacity if the landfill is developed to the full extent allowable under the current waste licence.

In calculating the tonnage capacity of the landfill, a waste density of 0.8 tonnes/m<sup>3</sup> was taken as an average figure. Waste densities can range between 0.6 - 1 tonnes/m<sup>3</sup>. Also, an estimated 10% of the void space in each cell will be taken up by daily cover. Therefore, this portion was subtracted from the total void space to estimate the total tonnage of waste that may be accepted at the landfill.

Therefore, the total void space at the landfill (waste and daily cover) is approximately 1,325,000 m<sup>3</sup>.

### 2.4 Task 4: Clarify the precise location of all monitoring points on-site, also indicate the type of monitoring location, i.e. leachate, surface water, etc., whether the sites are actively being monitored and the Schedule under W0029-02 that applies to the individual monitoring location.

Table 2.1 overleaf lists all the existing monitoring points' on site and provides the GPS location for each point. A map (Figure 2.6 Rev A) of the existing monitoring locations is also provided in Appendix 3.

The monitoring media (i.e. leachate, surface water, groundwater, etc.) being sampled at each point are listed in Table 2.1. Monitoring points that are decommissioned are shaded grey in the table.

The following is the explanation for the decommissioned monitoring points:

- GP 11 - replaced by GP 20
- GP 12 – replaced by GP 30
- GP 16 – no longer in existence – under cap in original cell
- GP 23 – located in the middle of a deep peat area – monitoring has been discontinued on H&S grounds due to the nature of the soils.
- SW 1 – Following capping work, all flow from this flank is diverted through SW 9
- SW 13 – as per SW1 above, all flow diverted through SW 8
- SW 14 – as per GP 23 above
- LE 01 – in place, however not sampled \*
- LE 03 – well blocked, no longer in use
- LE 04 - in place, however not sampled \*

- LE 05 – damaged and covered over during capping works
- LE 06 – in place, however not sampled \*

\* Note: It was agreed with the EPA that only one well was required to be monitored. LE 02 is monitored as this point.

The relevant schedule number from the current waste licence is also referenced in Table 2.1.

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**Table 2.1: Existing Monitoring Points – location, type, actively monitored and relevant waste licence schedule**

Environmental Media	Description under Schedule D of Licence (W0029-02) : Monitoring	Monitoring Point Name	GPS Co-ordinate		Actively Monitored (Yes/No)	Relevant Schedule under W0029-02	
			X	Y			
Landfill Gas	Landfill gas station in/in proximity to waste	GP-01	235577	220308	Yes	Schedule D	
		GP-03	235359	220370	Yes	Schedule D	
		GP-05	235306	220581	Yes	Schedule D	
		GP-08	235219	220739	Yes	Schedule D	
		GP-09	235260	220480	Yes	Schedule D	
		GP-13	235470	220465	Yes	Schedule D	
		GP-14	235433	220330	Yes	Schedule D	
		GP-15	235301	220308	Yes	Schedule D	
	Perimeter Wells	Perimeter Wells	GP-11			No-Monitoring now undertaken at GP20	Schedule D
				235422	220131		
			GP-12			No-Monitoring now undertaken at GP30	Schedule D
				235354	220780		
			GP-16			No - no longer exists	-
				235282	220490		
			GP-17	235283	220403	Yes	Schedule D
			GP-18	235408	220279	Yes	Schedule D
			GP-19	235413	220208	Yes	Schedule D
			GP-20	235422	220137	Yes	Schedule D
			GP-23	235628	220286	No	Schedule D
			GP-25	235652	220527	Yes	Schedule D
			GP-26	235638	220681	Yes	Schedule D
			GP-27	235630	220771	Yes	Schedule D
	GP-28	235624	220820	Yes	Schedule D		
	GP-29	235482	220790	Yes	Schedule D		
	GP-30	235352	220775	Yes	Schedule D		
	Flare	A-1	235323	220698	Yes	Schedule D	
	Dust	Dust Deposition Stations	DM-02			Yes - moved location towards the western site boundary	Schedule D
				235294	220327		
			DM-04	235249	220742	Yes	Schedule D
			DM-05	235632	220796	Yes	Schedule D
DM-07			235418	220137	Yes	Schedule D	
Noise	Noise Stations	N2	235346	220284	Yes	Schedule D	
		N3	235248	220746	Yes	Schedule D	
		N6	235418	220132	Yes	Schedule D	

Environmental Media	Description under Schedule D of Licence (W0029-02) : Monitoring	Monitoring Point Name	GPS Co-ordinate		Actively Monitored (Yes/No)	Relevant Schedule under W0029-02	
			X	Y			
		N8	235632	220803	Yes	Schedule D	
Surface Water		SW1	235261	220438	No	Schedule D	
		SW7	235079	220270	Yes	Schedule D	
	Discharge Locations	SW8	235163	220386	Yes	Schedule D	
		SW9	235138	220468	Yes	-	
		SW10	235108	220554	Yes	-	
		SW11	234844	220568	Yes	Schedule D	
	1 upstream location	SW12	235342	220825	Yes	Schedule D	
		SW13	235281	220380	No	-	
		SW14	235612	220361	No	-	
	Groundwater		MW-01D	235574	220305	Yes	Schedule D
		MW01S	235574	220305	Yes	-	
		MW-05S	235260	220484	Yes	-	
		MW-05D	235261	220488	Yes	Schedule D	
		MW-08S	235229	220742	Yes	Schedule D	
		MW-08D	235225	220740	Yes	-	
		MW-08B	235221	220739	Yes	Schedule D	
		BH-01S	235289	220263	Yes	Schedule D	
		BH-01D	235289	220263	Yes	Schedule D	
3 other locations			BH-02S	235173	220287	Yes	Schedule D
			BH-02D	235176	220288	Yes	Schedule D
			BH-03D	235486	220783	Yes	Schedule D
			BH-03S	235486	220783	Yes	Schedule D
			BH-04S	235609	220638	Yes	Schedule D
		BH-04D	235609	220638	Yes	Schedule D	
Leachate		LE-01	235337	220415	No	Schedule D	
		LE-02	235466	220405	Yes	Schedule D	
		LE-03	235445	220567	No	Schedule D	
		LE-04	235400	220582	No	Schedule D	
		LE-05	235369	220501	No	Schedule D	
		LE-06	235322	220629	No	Schedule D	
	2 locations per lined cell		LE-07	235374	220691	Yes	Schedule D
			LE-08	235602	220691	Yes	Schedule D
	Leachate Storage Structure	LE-09	235307	220714	Yes	Schedule D	

## 2.5 Task 5 Provide a copy of all alterations/amendments agreed to the licence with the Office of Environmental Enforcement (OEE) since the date of grant of the Licence Reg. No. W0029-02.

There have been a number of alterations and amendments to the current licence that have been agreed with the Agency. These amendments are listed below and copies of the variation agreement letters are included in Appendix 4.

- Technical Amendment A initiated by the EPA on the 20<sup>th</sup> October 2005 to include conditions on Resource and Energy Efficiency, Accident Prevention and Emergency Response and Restoration and Aftercare.
- Removal of Condition 3.13.5 of the licence which involved the removal of dissolved methane for leachate prior to its removal offsite. As stated in Specified Engineering Works Report – No. 3 for the Installation of Leachate Management Infrastructure submitted to the Agency in March 2006, this would only be necessary if leachate was disposed of to a public sewer.

At a meeting in Quarter 3, 2006 between Offaly County Council, EPA (Michael Henry and Caoimhin Nolan) and our consultants Fehily Timoney & Co, it was agreed that there was no requirement for methane stripping based on the fact that the leachate was transported directly to Tullamore WWTP for treatment. This was also included in Council correspondence to the Agency dated 19 October 2006. A copy of this correspondence is included in Appendix 4.

For the present, and for the foreseeable future, leachate will be tankered off site directly to Tullamore Wastewater Treatment Plant.

- Amendment to Condition 3.12 Landfill Lining to allow the use of calcareous material in the leachate drainage layer within the landfill lining at Derryclure Landfill Extension. A copy of Agency correspondence in relation to this is included in Appendix 4.

The following are extracts from the Council's submission to the EPA in relation to the Proposed Decision WL 29-03;

### Condition 3.2.1 & Schedule B

The definition of 'Specified' Engineering Works (SEW)' contained in Schedule B and the requirements of condition 3.2.1 is onerous and does not allow the flexibility required to modify works at construction stage as and when on-site problems are encountered. This condition may therefore delay works to an unnecessary degree and result in unnecessary costs.

We request that this condition is amended to allow an appropriate degree of flexibility to vary construction details to reflect on-site construction difficulties.

### Condition 4.2.

We respectively request that this is amended to read:-

"The final height of the facility, following allowable settlement of the final capping, shall be 94m OD Malin".

### Condition 5.2.12 (10)

It is not feasible to store on-site samples of waste for a period of up to two months.

We request that you amend/ omit this requirement.

### Condition 12.1.1.

The annual contribution of €20,148.00 does not reflect the current economic constraints within which Local Authorities now operate in and in particular the universal decline in landfill income across both the public and private sectors.

We request a minimum of a 20% reduction in the annual fee until such time as the economy recovers.

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# Appendix 1

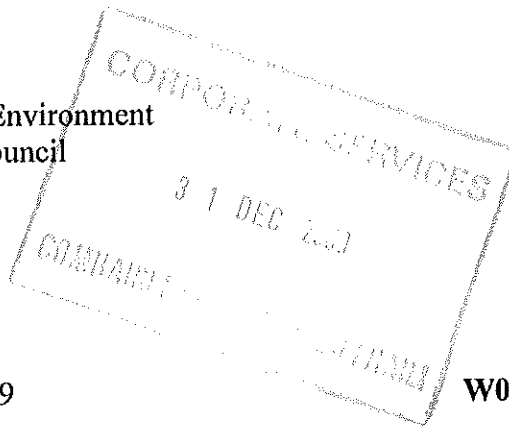
Copy of EPA Letter for Request for Information

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David Hogan  
Senior Engineer Environment  
Offaly County Council  
Aras an Chontae  
Charleville Road  
Tullamore  
Co. Offaly



22 December 2009

W0029-04/Art14(2)(b)(ii)BH

Re: Notice in accordance with Article 14(2)(b)(ii) of the Waste Management (Licensing) Regulations

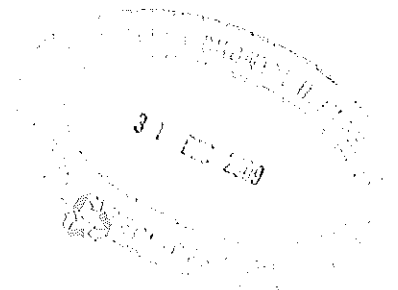
Dear Mr. Hogan,

I am to refer to the above referenced application for a waste licence relating to a facility at Derryclure, Tullamore, Co. Offaly. Having examined the documentation submitted, I am to advise that the Agency is of the view that the documentation does not comply with Article 12 of the Waste Management (Licensing) Regulations.

You are therefore requested, in accordance with Article 14(2)(b)(ii) of the regulations, to take the steps and supply the information detailed below:

#### ARTICLE 12 COMPLIANCE REQUIREMENTS

- Submit an updated map showing all proposed environmental monitoring locations; this map shall also indicate the location of the leachate storage lagoon and the gas flare.
- Provide details on the status of the proposed gas utilisation technology.
- Please verify the total void space (m<sup>3</sup>) of the landfill over the entire life of the facility.
- Clarify the precise location of all monitoring points on-site, also indicate the type of monitoring location, i.e., leachate, surface water, etc., whether the sites are actively being monitored and the Schedule under W0029-02 that applies to the individual monitoring location.



- o Provide a copy of all alterations/amendments agreed to the licence with the Office of Environmental Enforcement (OEE) since the date of grant of licence Reg. No. W0029-02.

Please supply the information in the form of one signed original plus two copies in hardcopy format within **five** weeks of the date of this notice. In addition submit two copies in electronic searchable format on a CD-ROM to the Agency. The e-file should be saved as a 'pdf' file, read only status.

Please note that the application's register number is **W0029-04**. Please direct all correspondence in relation to this matter to the *Licensing Unit, Office of Licensing & Guidance, Environmental Protection Agency, Headquarters, PO Box 3000, Johnstown Castle Estate, County Wexford* quoting the register number.

Yours sincerely,



**Breen Higgins**  
**Inspector**  
**Office of Licensing & Guidance**

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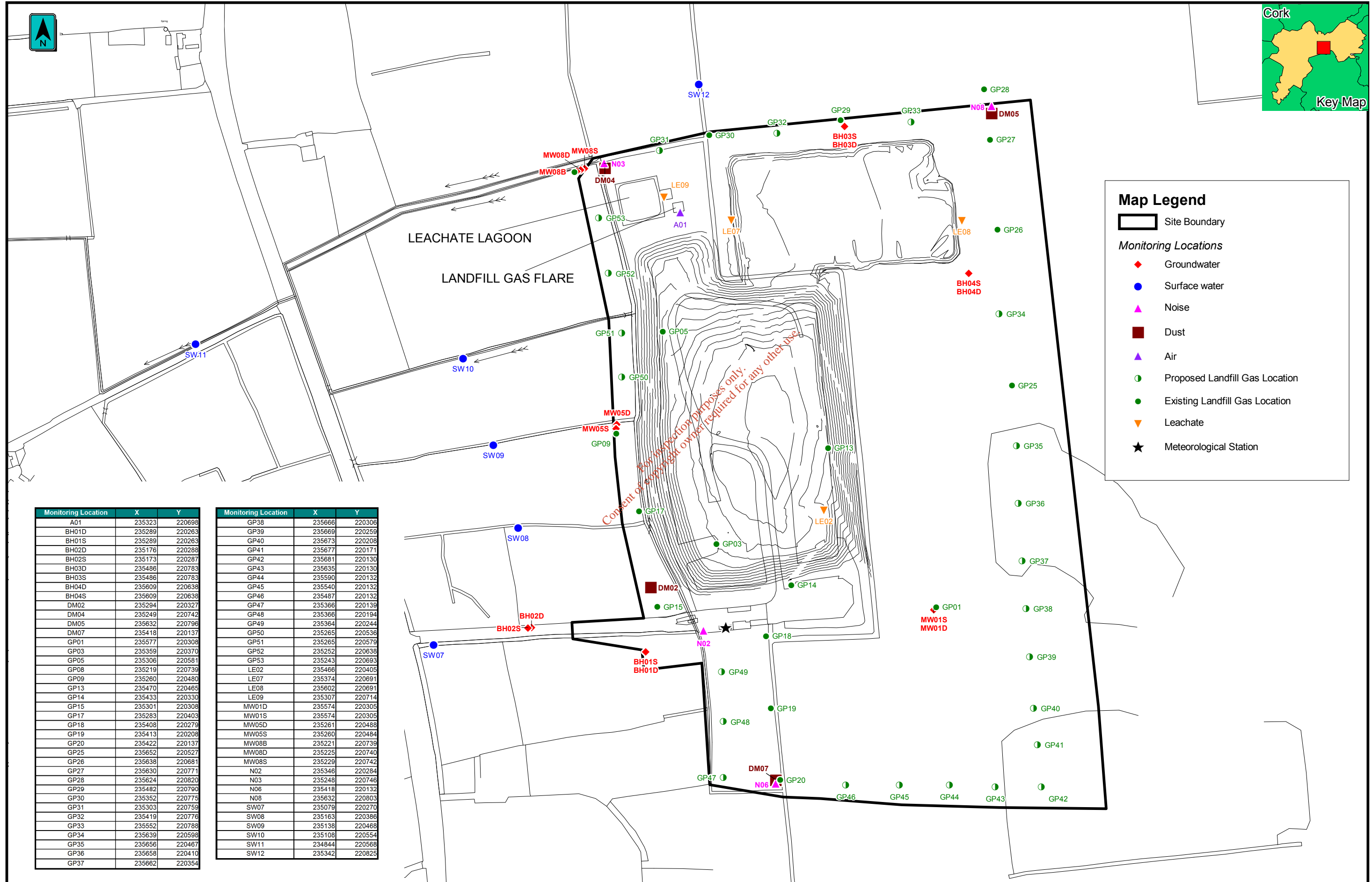
# Appendix 2

Proposed Environmental Monitoring Location Map  
CE07-286-007\_Rev C

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**Map Legend**

- Site Boundary
- Monitoring Locations**
- ◆ Groundwater
- Surface water
- ▲ Noise
- Dust
- ▲ Air
- Proposed Landfill Gas Location
- Existing Landfill Gas Location
- ▼ Leachate
- ★ Meteorological Station

Monitoring Location	X	Y
A01	235323	220698
BH01D	235289	220263
BH01S	235289	220263
BH02D	235176	220288
BH02S	235173	220287
BH03D	235486	220783
BH03S	235486	220783
BH04D	235609	220638
BH04S	235609	220638
DM02	235294	220327
DM04	235249	220742
DM05	235632	220796
DM07	235418	220137
GP01	235577	220308
GP03	235359	220370
GP05	235306	220581
GP08	235219	220739
GP09	235260	220480
GP13	235470	220465
GP14	235433	220330
GP15	235301	220308
GP17	235283	220403
GP18	235408	220279
GP19	235413	220208
GP20	235422	220137
GP25	235652	220527
GP26	235638	220681
GP27	235630	220771
GP28	235624	220820
GP29	235482	220790
GP30	235352	220775
GP31	235303	220759
GP32	235419	220776
GP33	235552	220788
GP34	235639	220598
GP35	235656	220467
GP36	235658	220410
GP37	235662	220354

Monitoring Location	X	Y
GP38	235666	220306
GP39	235669	220259
GP40	235673	220208
GP41	235677	220171
GP42	235681	220130
GP43	235635	220130
GP44	235590	220132
GP45	235540	220132
GP46	235487	220132
GP47	235366	220139
GP48	235366	220194
GP49	235364	220244
GP50	235265	220536
GP51	235265	220579
GP52	235252	220638
GP53	235243	220693
LE02	235466	220405
LE07	235374	220691
LE08	235602	220691
LE09	235307	220714
MW01D	235574	220305
MW01S	235574	220305
MW05D	235261	220488
MW05S	235260	220484
MW08B	235221	220739
MW08D	235225	220740
MW08S	235229	220742
N02	235346	220284
N03	235248	220746
N06	235418	220132
N08	235632	220803
SW07	235079	220270
SW08	235163	220386
SW09	235138	220468
SW10	235108	220554
SW11	234844	220566
SW12	235342	220825

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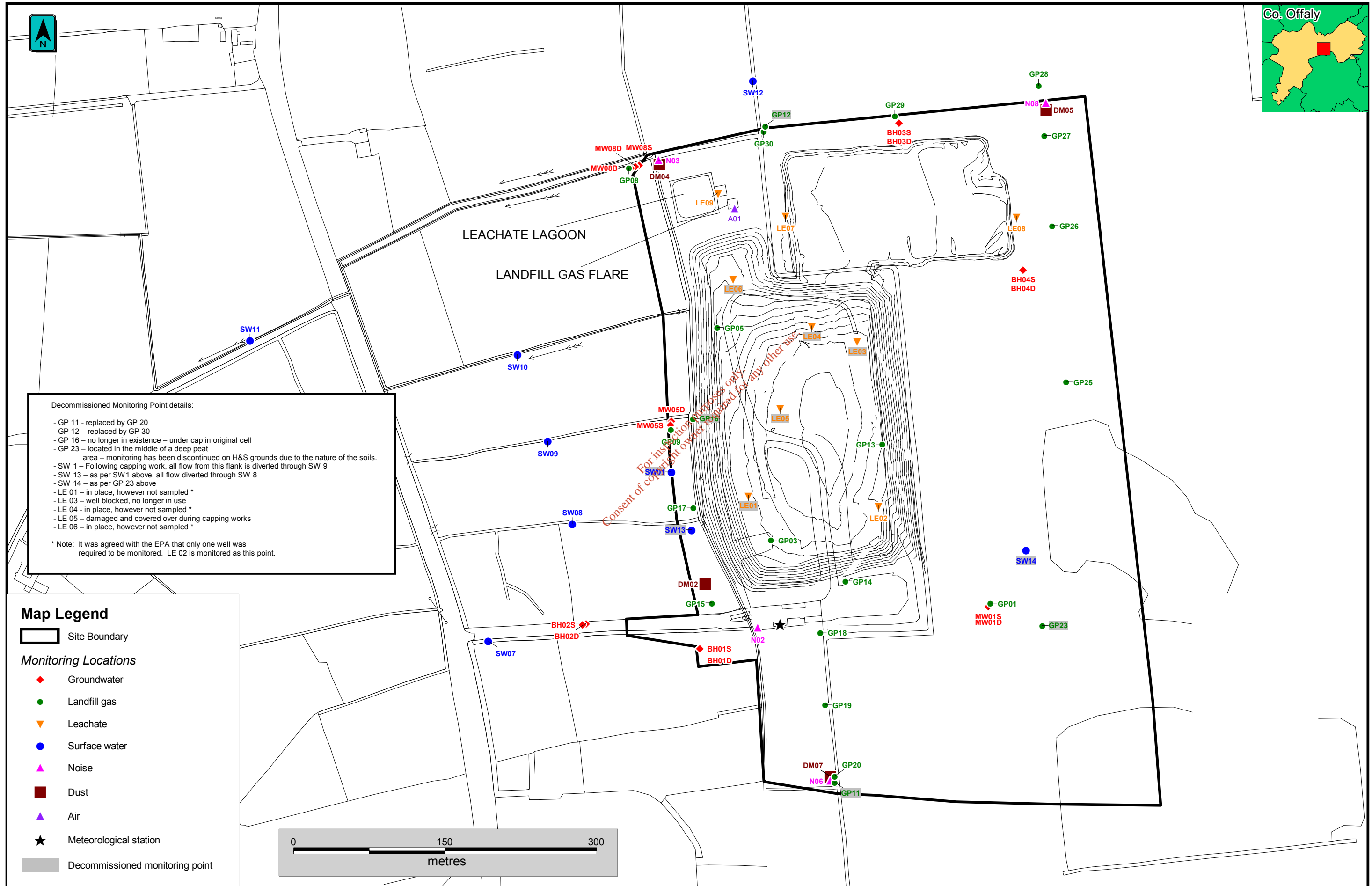
# Appendix 3

## Existing Environmental Monitoring Location Map Figure 2.6 Rev B

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# Appendix 4

Copy of Alterations/Amendments to the licence that have been agreed with the Office of Environmental Enforcement (OEE)

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Headquarters  
P.O. Box 3000  
Johnstown Castle Estate  
County Wexford  
Ireland

AMENDMENT A  
TO  
WASTE LICENCE

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<b>Licence Register Number:</b>	29-2
<b>Licensee:</b>	Offaly County Council
<b>Location of Facility:</b>	Derryclure Landfill, Derryclure, Tullamore, County Offaly.



## Reason for the Amendment of Conditions

The Environmental Protection Agency has examined the terms of Waste Licence Reg. No. 29-2 as required by the provisions of Section 76(3)(a) of the Waste Management Acts 1996 to 2003, and determined that the licence can be brought into conformity with the provisions and requirements of Council Directive 96/61/EC by the exercise of the powers conferred by Section 76(4) of the Waste Management Acts 1996 to 2003.

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of Waste Licence Reg. No. 29-2 granted on the 23/07/2003, as well as any amendments noted herein, any emissions from the activity will comply with and not contravene any of the requirements of Section 40(4) of the Waste Management Acts 1996 to 2003.

## Amendment of Conditions

In pursuance of the powers conferred on it by Section 76(4) of the Waste Management Acts 1996 to 2003, the Agency amends Waste Licence Reg. No. 29-2, granted to Offaly County Council, for a facility located at Derryclure, Tullamore. Co. Offaly.

This amendment is limited to the following conditions of Waste Licence Reg. No. 29-2.

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# Amendments

## Resource Use and Energy Efficiency

### 2.5 Resource Use and Energy Efficiency

2.5.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the date of grant of this amendment. The audit shall:-

- (i) identify all opportunities for energy use reduction and efficiency;
- (ii) be carried out in accordance with the guidance published by the Agency - "Guidance Note on Energy Efficiency Auditing"; and
- (iii) be repeated at intervals as required by the Agency.

The recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2.3.2.1 above.

2.5.2 The licensee shall identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in water usage shall be incorporated into the Schedule of Environmental Objectives and Targets.

2.5.3 The licensee shall undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets.

*To be inserted after Condition 2.4 of the existing licence.*

**Reason:** *To provide for the efficient use of resources and energy in all site operations.*

## Accident Prevention and Emergency Response

- 9.5 The licensee shall, within twelve months of date of this amendment, ensure that a documented Accident Prevention Policy is in place, which will address the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary.
- 9.6 The Emergency Response Procedure shall be reviewed annually and updated as necessary.

*To be inserted after Condition 9.4 of the existing licence.*

**Reason:** *To provide for the protection of the environment.*

## Restoration and Aftercare Plan

- 4.8 A final validation report to include a certificate of completion for the Restoration and Aftercare Plan, for all or part of the site as necessary, shall be submitted to the Agency within three months of execution of the plan. The licensee shall carry out such tests, investigations or submit certification, as requested by the Agency, to confirm that there is no continuing risk to the environment.

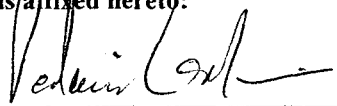
*To be inserted after Condition 4.7 of the existing licence.*

**Reason:** *To provide for the restoration of the facility.*

These amendments should be read in conjunction with Waste Licence Reg. No. 29-2, granted on 23/07/2003.

Sealed by the seal of the Agency on this the 20th day of October 2005

PRESENT when the seal of the Agency  
was affixed hereto:

  
Padraic Larkin, Director/Authorised Person



Coimisiún Chonstitúcháin Uilleann Fhionn  
Tel: 057 9346800 - Fax: 057 9346868  
Website: www.offaly.ie  
Email: secretar@offalycoc.ie

## Offaly County Council

Áras an Chontae,  
Charleville Road,  
Tullamore,  
Co. Offaly.



12

For the attention of  
Mr John Gibbons  
Environmental Protection Agency  
John Moore Road  
Castlebar  
Co Mayo

Licence Register No: W0029-02  
Date of Audit: 30/08/2006  
Audit Reference No: (29-2) 06 AR02JG

Your ref: WL29-2(06)NONCJG.doc

19<sup>th</sup> October 2006

Re: Facility : Derryclure Landfill, Tullamore Co Offaly.

Dear Sir,

Outlined below is the response to the Environmental Protection Agency's site audit of the 30<sup>th</sup> August 2006.

### 5.0 Audit Findings

#### 5.1 Audit Non Compliance

Condition 3.13.5 states:

*Within twelve months of the date of grant of his licence, the licensee shall provide appropriate infrastructure to allow for the removal of dissolved methane from the leachate prior to its removal off-site.*

1. Methane stripping of the leachate prior to disposal.

As the council are transporting the leachate to Tullamore Waste Water Treatment Plant by tanker for treatment there is no requirement for methane stripping. This was discussed and agreed at a previous meeting between the council and the Agency and we are now formally requesting a change in the licence condition.

2. Telemetry

Condition 3.19.1 states:

*Within twelve months of the date of grant of this licence, a telemetry system shall be installed and maintained at the facility. All facility operations linked*

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David Hogg

File

Derryclure  
~~Derryclure~~ Landfill  
Extension



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Director of Environmental Services  
Offaly County Council  
Aras an Chontae  
Charleville Road  
Tullamore  
Co. Offaly

Office of  
Environmental  
Enforcement

Environmental Protection Agency  
Regional Inspectorate, John Moore Road  
Castlebar, County Mayo, Ireland  
An Ghníomhaireacht um Chaomhú Contaebar  
Cigireacht Réigiúnach, Bóthar Sheán de Mórcha  
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6<sup>th</sup> April 2006

WL29-2(06)GEN21CN

**Re. Proposed Leachate Drainage Layer at Derryclure Landfill**

Dear Director,

I refer to your recent correspondence in relation to the proposed use of rounded stone in the leachate drainage layer of the lined cell being constructed at Derryclure Landfill (WL29-2). The Agency notes that the actual drainage stone being proposed for use has a higher calcium carbonate level than that recommended in the Agency's Landfill Site Design Manual, and based on the information provided, the Agency agrees to the use of this stone, subject to compliance with the Conditions of your waste licence.

Should you have any query regarding this communication, please quote the above reference and contact the undersigned at the EPA Regional Inspectorate, John Moore Road, Castlebar, Co. Mayo.

Yours sincerely,

*Caoimhín Nolan*  
Mr. Caoimhín Nolan, Inspector  
Office of Environmental Enforcement

