

CAULMERT LIMITED

Engineering, Environmental & Planning
Consultancy Services

Wootton Landfill Site

Viridor Waste Wootton Limited

Activities & Operating Techniques Report

Environmental Permit Variation Application

Prepared by:

Caulmert Limited

14, Farrington Way, Eastwood Link Business Park, Eastwood, Notts, NG16 3BF

Tel: 01773 749132

Fax: 01773 746280

Email: andystocks@caulmert.com

Web: www.caulmert.com

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APPROVAL RECORD

Site: Wootton Landfill Site

Client: Viridor Waste Wootton Limited

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Document Title: Activities & Operating Techniques Report

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Report Status: **Final**

Project Manager: Andy Stocks

Caulmert Limited: 14 Farrington Way, Eastwood Link Business Park, Eastwood, Notts, NG16 3BF

Tel: 01773 749132

Author	Kellie-Marie P. Burston	Date	02/08/2021
Reviewer	Andy Stocks	Date	02/08/2021
Approved	Andy Stocks	Date	02/08/2021

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WTN3000	Wootton Landfill MEPP Monitoring & Extraction Point Plan
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1. INTRODUCTION

1.1 Document context

1.1.1 This Activities and Operating Techniques Report is in response to the environmental permit application form C4 for bespoke waste operation permits.

1.1.2 The C4 form requests information about the activities the application relates to and the operating techniques that will apply to them. Information is requested on: -

- a) Types of activities;
- b) Types of waste to be accepted;
- c) Emissions;
- d) Operating techniques including technical standards;
- e) General requirements in relation to amenity and accident risks;
- f) Types and amounts of raw materials;
- g) Information for specific sectors (hazardous and non-hazardous waste recovery and disposal sector);
- h) Monitoring of point source emissions;
- i) Resource efficiency and climate change.

1.2 Activities to be varied (Part C4 question 1)

1.2.1 This 'Activities and Operating Techniques Report' has been prepared to provide responses to the environmental permit application form part C4 which relates to the issues listed above. To aid cross-referencing between this 'Activities and Operating Techniques Report' and the application form, the various issues are presented in the same order as in the application form and the headings in this document include reference to the specific question number to which the information relates.

1.2.2 The proposed variation is for the addition of a methane stripping plant with a capacity of less than 50 tonnes a day, in addition this will require the construction of connecting pipework infrastructure for discharge from the MSP to the foul sewer. The effluent discharge point is shown in the Wootton Landfill Site 'MEPP Monitoring & Extraction Plan' drawing ref: WOOTON3000.

1.2.3 Question 1 of Part C4 requires a table to be completed with details of all the activities listed in schedule 1 of the Environmental Permitting Regulations and all directly associated activities (DAAs) (in separate rows), which are proposed to be carried out at site.

- 1.2.4 The addition of the methane stripping plant (non-hazardous waste at a capacity of less than 50 tonnes per day) will be applied to Wootton landfill site. As the remainder of the activities will remain unchanged by this variation, they have not been included in table 1 below.

Table 1: Waste Operations which do not form part of an installation

Name of Waste Operation	Description of the waste operation	Annex I (D Codes) and Annex II (R Codes) and descriptions	Hazardous Waste	Non-Hazardous waste treatment capacity
Wootton Landfill Site	Leachate treatment plant with a capacity of less than 50 tonnes a day	<i>D9 –Physical/physico-chemical treatment</i> <i>D 15 Storage pending any of the operations numbered D 1 to D 14 (excluding temporary storage, pending collection, on the site where the waste is produced.)</i>	n/a	24.6 tonnes (Less than 50 tonnes a day)
Total Storage Capacity				Leachate storage and methane stripping tank capacity: 24.6 tonnes (<50tonnes a day)
Annual throughput (tonnes per year)				8,979 tonnes of leachate

1.3 Types of waste accepted (Part C4 question 1)

- 1.3.1 The only waste type proposed is 19 07 03 landfill leachate, arising only from Wootton Landfill Site landfill site.

1.4 Point Source Emissions to air, water and land (Part C4 question 2)

- 1.4.1 Effluent from the MSP will discharge via the existing discharge point where trade effluent shall pass through the monitoring point into Anglian Water Services Limited (Anglian Water), public foul sewer situated at Wootton Valley foul sewer and subsequently treated at Anglian Water Treatment works located off Crow Lane.

1.5 Point source emission to sewers, effluent treatment plants or other transfers off site

1.5.1 Following treatment in the methane stripping plant, the leachate will be discharged to a foul sewer which leads to the Great Billing sewage treatment works in Northampton in accordance with a trade effluent agreement from Anglian Water which imposes restrictions on the quantity (80m³ in any 24-hour period) and quality of treated leachate to be discharged. The Wootton MSP proposes to discharge up to 24.6m³ which is within the EPR limits based on capacity of the MSP, treated effluent will be discharged in line with the trade effluent consent in Appendix 1.

1.5.2 Further details on the discharge and the resulting impact of the emission on controlled water following treatment at the sewage treatment works is included in the Surface Water Pollution Risk Assessment, document ref: 4898-CAU-XX-XX-RP-V-0309. The trade effluent emission point is shown in the Wootton Landfill MEPP Monitoring & Extraction Point Plan drawing ref: WTN3000.

1.6 Point source emission to water (other than sewers)

1.6.1 There are no proposed surface water emission points from the MSP.

1.7 Point source emission to land

1.7.1 Not relevant to this application.

1.8 Point Emissions to Air

1.8.1 There is a very low potential for odour release from untreated leachate and during venting to the atmosphere (venting to atmosphere will reduce the potential for pressure fluctuations). To minimise odours, raw leachate will enter the tank through an internal pipe extending vertically downwards to submerge the pipe end via a sealed leachate extraction system.

1.8.2 Fugitive Emissions to air is considered in further detail in Section 3.7 of the MSP Process Description & BAT Review, document ref: 4898-CAU-XX-XX-RP-0306.

1.9 Technical standards (Part C4 question 3a)

1.9.1 Question 3a asks that relevant technical guidance notes for each activity at the waste operation should be specified. Table 4 below is a summary table of the technical guidance that will apply either fully or in part to the proposed leachate treatment activities. For the avoidance of doubt with regards to which of the guidance or standards that apply, the relevant technical standards which apply to this activity are detailed separately below.

Table 3a: Technical standards

Description of Waste Operation	Appropriate Measure (TGN Reference)	Document reference
Leachate treatment plant with a capacity of less than 50 tonnes a day.	<p>EPR 1.00: How to comply with your environmental permit.</p> <p>Best Available Techniques (BAT) reference document for Waste Treatment</p> <p>IED 2010.75/EU Integrated Pollution Prevention and Control.</p> <p>UK Landfill Industry Code of Practice (ICoP) "The establishment of appropriate containment standards for leachate storage and treatment plant" (January 2017).</p>	<p>'Methane Stripping Plant process description <i>BAT review</i>' (doc. ref. 4898-CAU-XX-XX-RP-V-0308)</p> <p>Risk Assessments:</p> <ul style="list-style-type: none"> - Amenity and Accident Risk Assessment (document ref 4898-CAU-XX-XX-RP-V-0306) - Surface Water Pollution Risk Assessment (document ref 4898-CAU-XX-XX-RP-V-0309)

1.9.2 The Environment Agency's GOV.UK guidance EPR 1.00 '*How to comply with your environmental permit*' applies to all sites operated under the environmental permitting regime. It sets out good practice standards that should be applied by all operators.

1.9.3 The UK ICoP for the "establishment of appropriate containment standards for leachate storage and treatment plant" provides practical aspects of leachate storage and management in structures across the UK. It has been produced to provide industry specific and focussed guidance on the provision of suitable primary and secondary containment for the following systems:

- Leachate treatment plants;
- Stand-alone leachate storage tanks (leachate removal by tankering etc)
- On-waste leachate storage facility; and,
- Working areas associated with the above facilities.

1.9.4 The MSP has been assessed accordance with the Waste Treatment BREF, Best Available Techniques (BREF) 'Waste Treatment Industries, under Article 16(2) of Council Directive 96/61/EC (IPPC Directive) and an assessment of Best Available Techniques (BAT) which has been taken from the Commission Implementing Decision (EU) 2018/1147 of 10 August 2018 'Establishing Best Available Techniques (BAT) Conclusions for Waste Treatment, Under Direction 2010/75/EU of the European Parliament and of the Council. A BAT review and process description is included within document ref: 4898-CAU-XX-XX-RP-V-0308.

1.10 Process description (Part C4 question 3a)

1.10.1 A process description for the Methane Stripping Plant activity is provided in the '*Methane Stripping Plant process description & BAT review*' which has been submitted with this application under document ref: 4898-CAU-XX-XX-RP-V-0308.

1.11 General requirements – Amenity and Accidents (Part C4 question 3b)

1.11.1 It is a general requirement for all applications to consider the risk of emissions in relation to possible accidents, fugitive emissions, odour and noise and vibration. Risk assessments were carried out using the Environment Agency's templates for amenity and accident risk assessments and Surface Water Pollution Risk Assessment which considers emissions of substances as a result of the proposed operations. Document references include:

Amenity & Accidents Risk Assessment 4898-CAU-XX-XX-RP-V-0306;

Surface Water Pollution Risk Assessment 4898-CAU-XX-XX-RP-V-0309;

1.12 Information for specific sectors (Part C4 question 3d)

1.12.1 For certain sectors, information related to how the criteria of the relevant sector guidance notes for those sectors should be provided.

1.12.2 The specific questions for the waste treatment sector are not relevant to this application for a new methane stripping plant, as leachate treatment is more appropriately covered by the Waste Treatment BREF, Best Available Techniques (BREF) 'Waste Treatment Industries, under Article 16(2) of Council Directive 96/61/EC (IPPC Directive) and an assessment of Best Available Techniques (BAT) which has been taken from the Commission Implementing Decision (EU) 2018/1147 of 10 August 2018 'Establishing Best Available Techniques (BAT) Conclusions for Waste Treatment, Under Direction 2010/75/EU of the European Parliament and of the Council. as described under the technical standards.

2. MONITORING

2.1 Measures for monitoring point source emissions (Part C4 question 4a)

Emissions to air

- 2.1.1 Fugitive 'emissions to air' resulting from the MSP have been considered in further detail in the 'Methane Stripping Process Description & BAT Review' document ref: 4898-CAU-XX-XX-RP-V-0308 included within this application.

Emissions to water (other than sewers)

- 2.1.2 There will be no additional point source emissions to surface water, so additional monitoring is not proposed.

Emissions to sewers, effluent treatment plants or other transfers off site

- 2.1.3 There is an emission to Anglian Water's public foul sewer which leads to the Great Billing sewage treatment works under a trade effluent consent. Locations of sampling, monitoring and discharge points are identified in the Wootton Closed Landfill MEPP Monitoring & Extraction Point Plant, drawing ref: WTN3000.
- 2.1.4 The emissions monitoring that will be carried out relevant to the new activities are detailed within 'Substances' of the Trade Effluent Consent in Appendix 1. These are not required to be replicated in the permit.

3. REFERENCES

- 3.1.1 Directive 2008/98/EC of the European and of the Council of 19 November 2008 on waste and repealing certain Directives.
- 3.1.2 The Environmental Permitting (England and Wales) Regulations 2016
- 3.1.3 IPPC (August 2006) Reference document on Best Available Techniques for the Waste Treatment Industries.
- 3.1.4 UK Landfill Industry Code of Practice (2017) The Establishment of Appropriate Containment Standards for Leachate Storage Infrastructure.
- 3.1.5 Environment Agency (2013): Understanding the meaning of regulated facility. RGN 2 version 3.0.
- 3.1.6 Environment Agency (2020): Application for an environmental permit – Part C4 – carrying a bespoke waste operation permit. Version 13, August 2020.

WTN3000

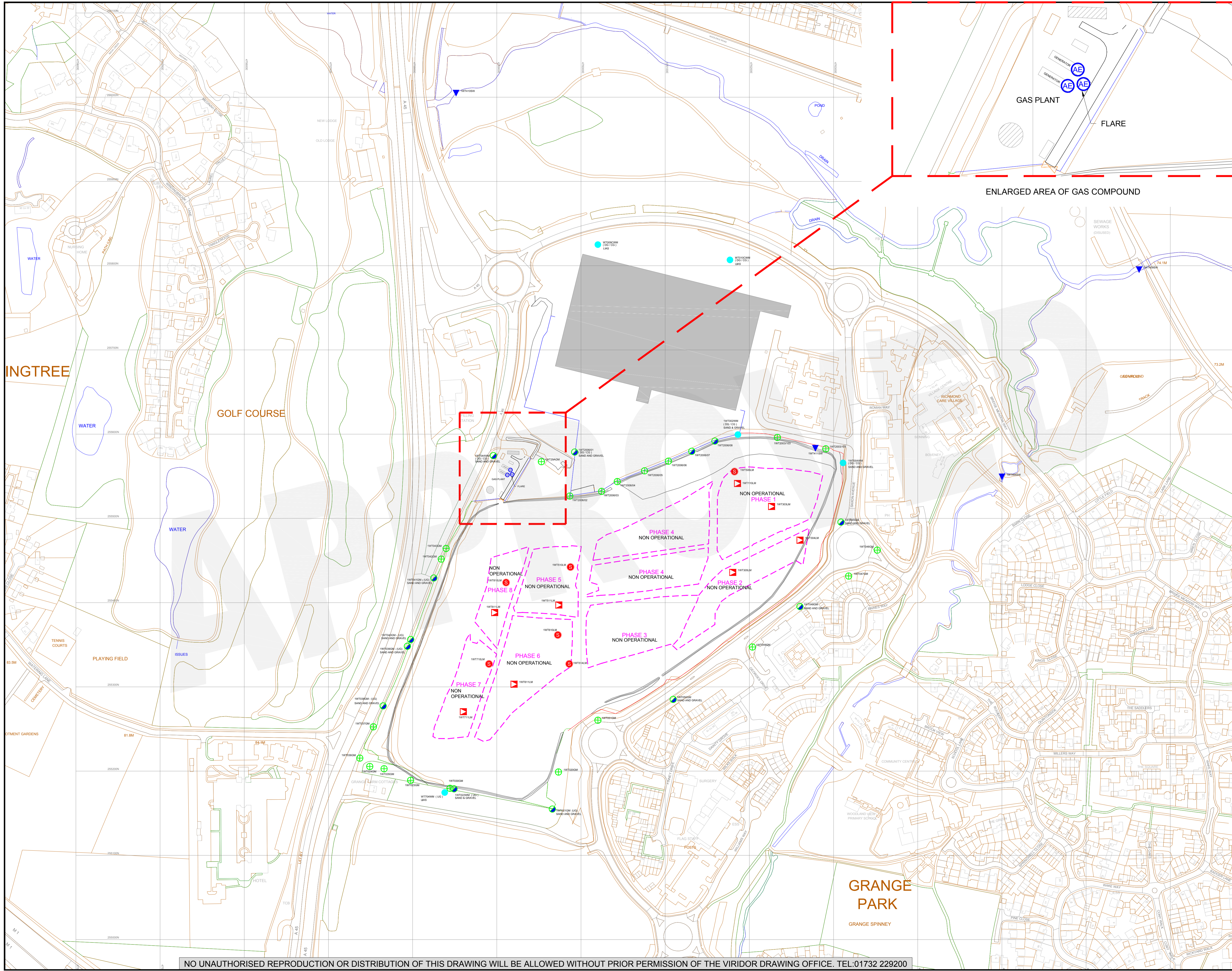
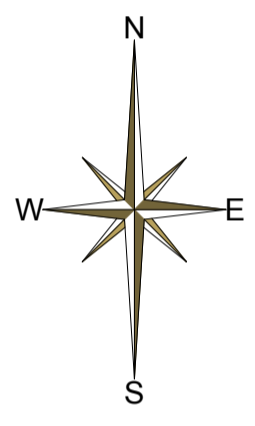
Wootton Landfill MEPP Monitoring & Extraction Point Plan

Drawings



- LEACHATE MONITORING POINT
- LEACHATE SUMP
- PERIMETER GAS MONITORING POINT
- DUAL GAS / GROUND WATER MONITORING POINT
- GROUND WATER MONITORING POINT
- SURFACE WATER MONITORING POINT
- AIR EMISSIONS MONITORING POINT
- DEPOSITIONAL DUST GAUGE
- AIR QUALITY MONITORING POINT
- F.I.D MONITORING POINT
- EFFLUENT MONITORING POINT

- (UG) UP GRADIENT
- (DG) DOWN GRADIENT
- (CG) CROSS GRADIENT
- (US) UP STREAM
- (DS) DOWN STREAM
- DIRECTION OF FLOW
- AS BUILT CELL BASAL AREA
- ENVIRONMENTAL PERMIT BOUNDARY



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1st Floor Riverside House, Sir Thomas Longley Road, Medway City Estate, Rochester, Kent, ME2 4PN
 Tel: 01732 229200 Fax: 01732 229280

SITE NAME
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 CLOSED LANDFILL

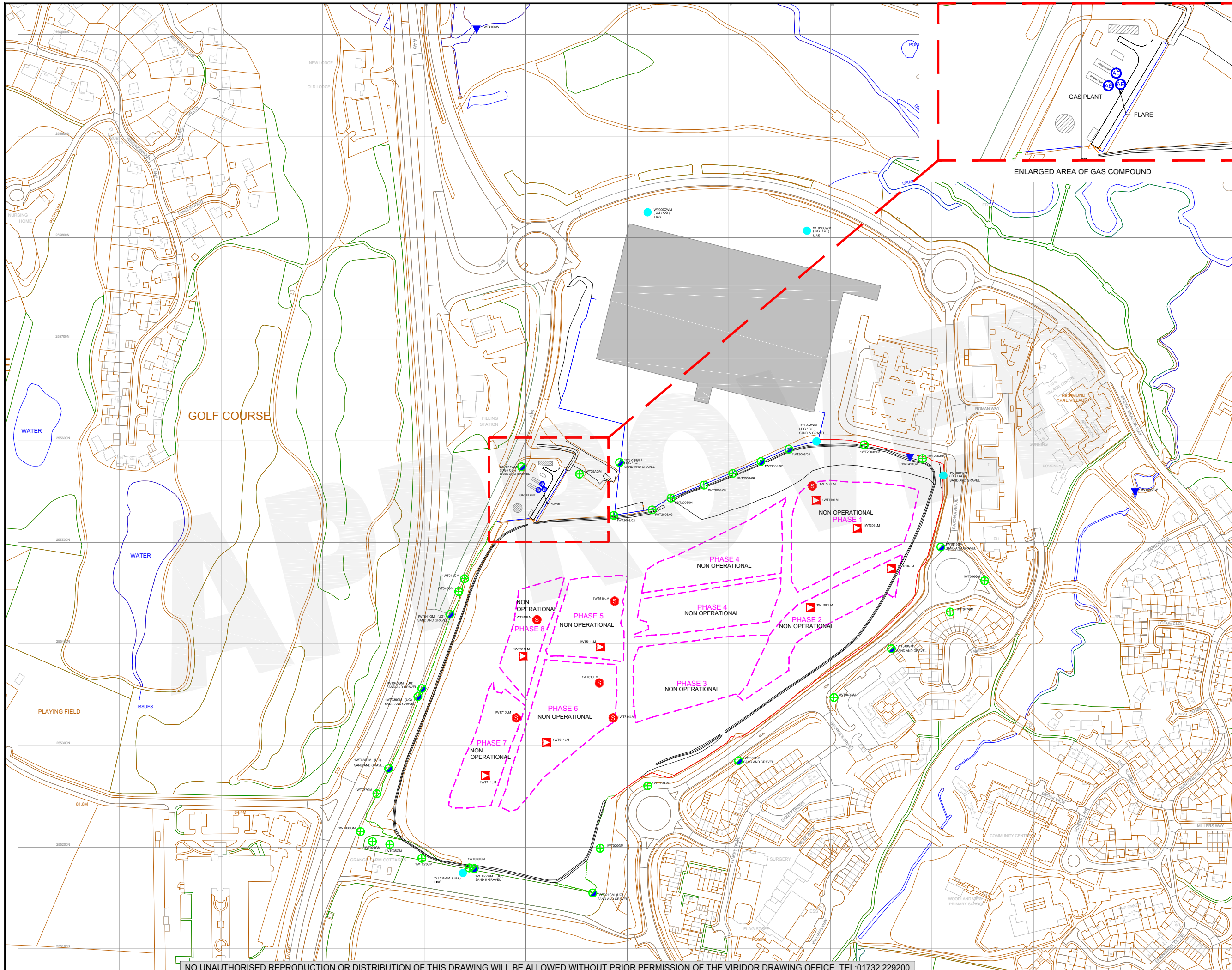
DRAWING TITLE
 MEPP
 MONITORING & EXTRACTION
 POINT PLAN

SCALE 1:2000
 DATE DEC 2016
 O/DRN RW
 O/APP PK

WTN3000

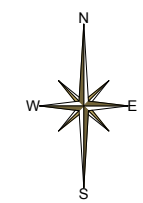
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DRN	APP DATE

FOR REVISION INFORMATION, SEE D.O. REGISTER
 DRAWING BASED UPON :



- LEACHATE MONITORING POINT
- LEACHATE SUMP
- PERIMETER GAS MONITORING POINT
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SITE NAME
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CLOSED LANDFILL**

DRAWING TITLE
**MEPP
MONITORING & EXTRACTION
POINT PLAN**

SCALE	NTS
DATE	DEC 2016
OIDRN	RW
QI/APP	PK
REVISION	TASK 8859
DRN	APP
DATE	
FOR REVISION INFORMATION, SEE D.O. REGISTER	
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WTN3000

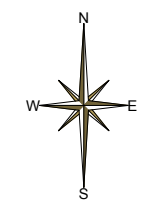


- LEACHATE MONITORING POINT
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- + PERIMETER GAS MONITORING POINT
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■ AS BUILT CELL BASAL AREA
— ENVIRONMENTAL PERMIT BOUNDARY



Wootton MEPP Tables Permit Variation 006 dated 26th April 2016

Permit Schedule 3, Revised Table S3.1

Table S3.1 Leachate level limits and monitoring requirements			
Monitoring Point Ref/Description	Limit	Monitoring frequency	Monitoring standard or method
Operational Cells or Phases¹			
As specified in Environment Agency Guidance LFTGN02 'Guidance on Monitoring of Surface Landfill Leachate, Groundwater and Surface Water' (issued in 2003), or such other subsequent guidance as may be agreed in writing with the Environment Agency			
Non Operational Cells or Phases²			
1WT303LM 1WT110LM, 1WT304LM and 1WT500LM 1WT305LM 1WT510LM, 1WT511LM, 1WT514LM, 1WT610LM, 1WT611LM, 1WT810LM and 1WT811LM	71.8 metres AOD 73.0 metres AOD 73.7 metres AOD 74.5 metres AOD	Quarterly	

¹ Any cells or phases that do not have a final engineered cap agreed in accordance with the existing 'landfill engineering' condition 2.6
² Any cells or phases that have a final engineered cap agreed in accordance with the existing 'landfill engineering' condition 2.6

Permit Schedule 3, Revised Table S3.7

Table S3.7 Leachate – other monitoring requirements				
Monitoring Point Ref/Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Operational Cells or Phases¹				
As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) and Horizontal Guidance Note H1 – Environmental Risk Assessment for permits (Annex J, version 2.1, Dec 2011) with one sampling point per cell / phase.				
Non Operational Cells or Phases²				
Points 1WT110LM, 1WT303LM, 1WT304LM, 1WT305LM, 1WT500LM, 1WT510LM, 1WT511LM, 1WT514LM, 1WT610LM, 1WT611LM, 1WT710LM, 1WT711LM, 1WT810LM, 1WT811LM	Leachate elevation Pumped volume	Quarterly		None
Points 1WT500LM, 1WT510LM, 1WT514LM, 1WT610LM, 1WT710LM, 1WT810LM, 1WT811LM	Ammoniacal nitrogen, electrical conductivity, chloride, pH, BOD, COD, total alkalinity, sulphate, manganese, calcium, magnesium, sodium, potassium, iron, cadmium, mercury, arsenic, chromium, copper, lead, nickel, zinc, phenol, monitoring point base	Annually		
Points 1WT500LM, 1WT510LM, 1WT514LM, 1WT610LM, 1WT710LM, 1WT810LM, 1WT811LM	Hazardous substances suite	Once every four years		

¹ Any cells or phases that do not have a final engineered cap agreed in accordance with the existing 'landfill engineering' condition 2.6
² Any cells or phases that have a final engineered cap agreed in accordance with the existing 'landfill engineering' condition 2.6

Permit Schedule 3, Revised Table S3.5

Table S3.5 Groundwater – other monitoring requirements			
Monitoring Point Ref/Description	Parameter	Monitoring frequency	Monitoring standard or method
Sand and Gravel Aquifer			
Up gradient 1WT021GM, 1WT022WM	Water level (mAOD)	Quarterly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) and Horizontal Guidance Note H1 – Environmental Risk Assessment for permits (Annex J, version 2, Apr 2010) or other guidance which supersedes these documents as agreed with the Environment Agency.
	pH, ammoniacal nitrogen, chloride, electrical conductivity	Six monthly	
	Potassium, calcium, sodium, manganese, sulphate, alkalinity, iron, cadmium, chromium, copper, lead, nickel, zinc, phenol, xylene, mecoprop	Annually	
Sand and Gravel Aquifer	Base of monitoring point	Every two years	
	Water level (mAOD), pH, ammoniacal nitrogen, chloride, electrical conductivity	Quarterly	
	Potassium, calcium, sodium, manganese, sulphate, alkalinity, iron, cadmium, chromium, copper, lead, nickel, zinc, phenol, xylene, mecoprop	Annually	
Down or cross gradient 1WT002WM, 1WT004WM, 1WT044WM, 1WT2006/01	Hazardous substances present at concentrations > MRV in leachate	Every two years	
	Base of monitoring point	Every two years	
	Water level (mAOD)	Quarterly	
Other wells 1WT038GM, 1WT039GM, 1WT040GM, 1WT041GM, 1WT045GM, 1WT048GM, 1WT050GM, 1WT2006/07, 1WT2006/08	Water level (mAOD)	Quarterly	
	Base of monitoring point	Every two years	
	Water level (mAOD)	Quarterly	
Lias Aquifer Up gradient 1WT704WM	pH, ammoniacal nitrogen, chloride, electrical conductivity, potassium, calcium, sodium, manganese, sulphate, alkalinity, iron, cadmium, chromium, copper, lead, nickel, zinc, phenol, xylene, mecoprop	Annually	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) and Horizontal Guidance Note H1 – Environmental Risk Assessment for permits (Annex J, version 2, Apr 2010) or other guidance which supersedes these documents as agreed with the Environment Agency.
	Base of monitoring point	Every two years	
	Water level (mAOD)	Quarterly	
Lias Aquifer Down gradient WT009CWM, WT010CWM	pH, ammoniacal nitrogen, chloride, electrical conductivity, nickel	Six monthly	
	Potassium, calcium, sodium, manganese, sulphate, alkalinity, iron, cadmium, chromium, copper, lead, zinc, phenol, xylene, mecoprop	Annually	
	Hazardous substances present at concentrations > MRV in leachate	Every two years	
Base of monitoring point	Every two years		

Permit Schedule 3, Revised Table S3.3

Table S3.3 Groundwater – emission limits and monitoring requirements					
Monitoring Point Ref/Description	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Downstream groundwater quality within the Sand and Gravel aquifer 1WT002WM, 1WT004WM, 1WT044WM and 1WT2006/01	Ammoniacal Nitrogen	1.8 mg/l	Spot sample	Quarterly	As specified in Environment Agency Guidance TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, version 2.1, Dec 2011 or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Chloride	250 mg/l			
	Nickel	0.2 mg/l			
	Phenol	0.5 µg/l			
	Xylene	3.0 µg/l			
Downstream groundwater quality within the Lias Limestone aquifer WT009CWM WT010CWM	Mecoprop	0.1 µg/l	Spot sample	Monthly then six monthly upon completion of IC1	As specified in Environment Agency Guidance TGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, version 2.1, Dec 2011 or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Ammoniacal Nitrogen	To be determined upon completion of IC1			
	Chloride				
	Nickel				
	Phenol				
Mecoprop	Xylene	To be determined upon completion of IC1	Spot sample	Monthly then annually upon completion of IC1	

Permit Schedule 3, Revised Table S3.8

Table S3.8 Surface water – other monitoring requirements				
Monitoring Point Ref/Description	Parameter	Monitoring Frequency	Monitoring Standard or Method	Other specifications
1WT405SW, 1WT409SW, 1WT410SW and 1WT411SW	Chloride Electrical conductivity pH Ammoniacal nitrogen Visual Oil and Grease	Quarterly	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) and Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J, version 2 April 2010 or other such guidance which supersedes this document as agreed with the Environment Agency

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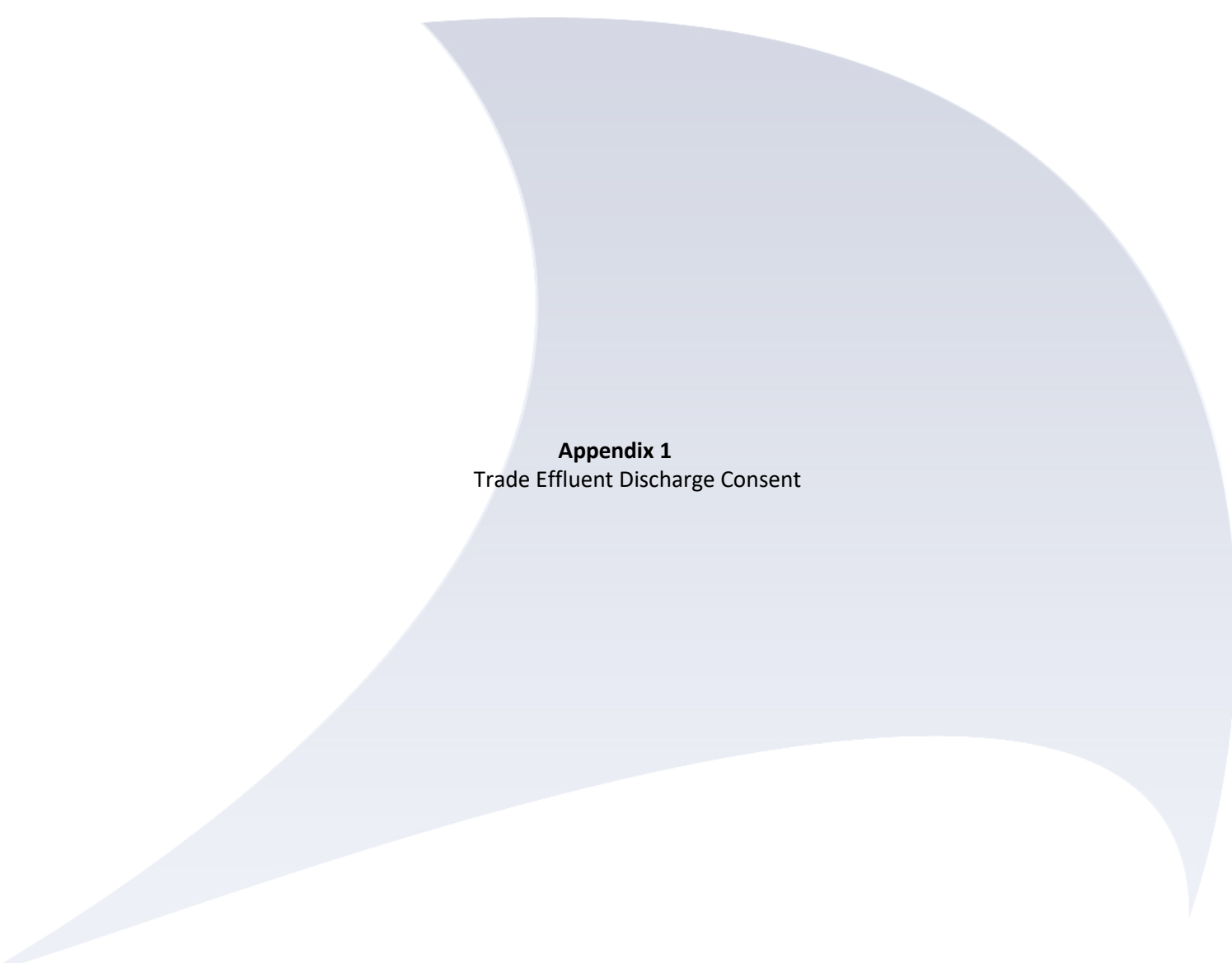


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Tel: 01732 229200 Fax: 01732 229280

SITE NAME
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DRAWING TITLE
MEPP TABLES

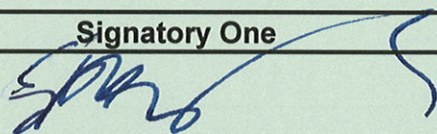
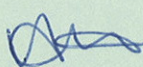
SCALE NTS	WTN3000
DATE DEC 2016	
DIRN RW	
QI/APP PK	
REVISION	TASK 8859
DRN	APP DATE
FOR REVISION INFORMATION, SEE D.O. REGISTER	
DRAWING BASED UPON	



Appendix 1
Trade Effluent Discharge Consent

APPROVAL FORM

1.1.F03
Issue 3 (Oct 2004)

Document Title :	Wootton Landfill Consent to Discharge Trade Effluent ADU 106 dated 19 May 2009 (replaces consent ADO263 dated 14/06/04)	
Issue Number :	One (detail revisions below)	
Issue Date		
Approved	Signatory One	Signatory Two
Signed :		
Name :	S P Hodges	H Holland
Position :	Director of Engineering	Management Systems Administrator
Date :	<i>10/8/09.</i>	<i>11/08/09.</i>

Document History

Issue No	Details	Issue Date	Initial
Issue 2			
Issue 3			
Issue 4			
Issue 5			
Issue 6			
Issue 7			
Issue 8			
Issue 9			
Issue 10			

If document attached is a CONTROLLED DOCUMENT, include Registration Stamp & Binder Number:

**MASTER
COPY**

The Company Secretary
Viridor Waste Wootton Limited
Peninsula House
Rydon Lane
Exeter
Devon
EX2 7HR

19 May 2009

Dear Sir / Madam,

**Water Industry Act 1991 (as amended)
Consent to Discharge Trade Effluent (Variation)**

Please find enclosed the consent to discharge trade effluent referenced ADU 106 which relates to the following premises:

Viridor Waste Wootton Limited
Wootton Landfill Site
A508 Southbound
Collingtree
Northampton
Northamptonshire
NN4 0LY

As from 19 May 2009 the conditions contained within this document will replace those in the consent dated 14 June 2004 referenced ADO 263.

Health and Safety

You have a duty of care under the Health & Safety at Work Act 1974 to identify and notify our employees of any health and safety risks they may face whilst visiting your premises in connection with our trade effluent duties (We have a statutory right of access for trade effluent purposes under section 171 of the Water Industry Act 1991). All associated risk assessments should also be made available to our employees on entering your premises and all significant hazards brought to their attention.

Compliance

The consent is a legal document issued by Anglian Water under its powers within the Water Industry Act 1991. Consent conditions have been set to protect public health, our infrastructure, processes and the aquatic environment. These conditions must be complied with at all times. Therefore any person who may influence the quality or quantity of the discharge must be made aware of these conditions. It should be noted that failure to comply with the conditions of the consent may result in prosecution and/or other

**Anglian Water
Services Limited**

Henderson House
Lancaster Way
Huntingdon
Cambs.
PE29 6XQ

Tel 01480 323900
Fax 01480 326008

Our ref ADU 106

Your ref

Registered Office
Anglian House,
Ambury Road, Huntingdon,
Cambridgeshire, PE29 3NZ
Registered in England
No. 2366656

an AWG Company

enforcement action being taken by Anglian Water, including the recovery of civil damages.

Review of Consent

Anglian Water will review the consent on a regular basis to ensure that it remains appropriate and fully protects public health, our operations and the wider environment. The review process may result in a requirement to vary one or more of the conditions contained within your existing consent. Anglian Water will advise you at the earliest opportunity should this be the case. No change will be made until the end of 2 years after the date of the last change unless the variation is required as a consequence of a change of circumstances.

Provision of Information

In accordance with your consent document you must contact the Anglian Water person named below in any of the following circumstances:

- spillage or pollution incident at the above premises
- non-compliance with consent conditions
- proposed changes to the volume or flow rate of the trade effluent
- proposed changes to the nature and composition of the trade effluent
- proposed changes to the discharge point
- changes in name or status
- changes of contact details at the premises

Prompt communication will enable Anglian Water to ensure that its operations are effectively protected and that consent conditions remain appropriate.

If you do not own the above premises you should ensure that a copy of this consent is forwarded to the owner at the earliest opportunity.

Anglian Water Contact

Your contact for all trade effluent issues relating to the above premises, including trade effluent charges, is as follows:

John Walshaw - Catchment Quality Scientist
Anglian Water Services Ltd
Broadholme WwTW
Ditchford Lane
Wellingborough, Northants NN8 1RR

Tel: 01933 337002

Fax: 01933 337003

email: jwalshaw@anglianwater.co.uk

Anglian Water Helpline: 08457 145145

Please retain a copy of this letter for information and quote consent reference ADU 106 in all correspondence.

Appeals

If you have any queries regarding the consent you should contact Anglian Water and we

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will attempt to resolve any issues that may arise. However, should you ultimately consider any of the conditions in the consent are unreasonable, you have a right of appeal to the Water Services Regulation Authority (WSRA). Information Note No. 21 has been produced to explain the WSRA's approach to appeals. Should you require a copy of this information note please contact the person named above.

Yours faithfully



Jim Keech

Trade Effluent Scientist

Registered Office
Anglian House,
Ambury Road, Huntingdon,
Cambridgeshire, PE29 3NZ
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**NOTICE OF DIRECTION VARYING THE CONDITIONS ATTACHING
TO A CONSENT TO THE DISCHARGE OF TRADE EFFLUENT
ISSUED PURSUANT TO: WATER INDUSTRY ACT 1991 (AS AMENDED)**

to Viridor Waste Wootton Limited
of Peninsula House
Rydon Lane
Exeter
Devon
EX2 7HR
Company No. : 01196767
(‘the trader’)

in relation to a
premises known as:

Viridor Waste Wootton Limited
Wootton Landfill Site
A508 Southbound
Collingtree
Northampton
Northamptonshire
NN4 0LY
(‘the premises’)

SEE NOTE 2 ANGLIAN WATER SERVICES LIMITED (‘Anglian Water’) under their powers in the above Act hereby direct that as from the 19 May 2009 the conditions attaching to the Consent given on 29 November 1990 shall cease to apply and the Consent to discharge trade effluent from the premises into a public sewer shall be subject to the following conditions:

Nature and
Composition

1. The trade effluent discharged shall be of the following nature and composition (‘the trade effluent’):

Waste waters arising from the treatment of landfill leachate, originating from a closed landfill site that previously received domestic, commercial and inert industrial wastes

Monitoring Point and
Receiving Sewer

2. The trade effluent shall pass through the monitoring point situated at a point after treatment and prior to discharging to (‘the monitoring point’) and shall only be discharged into the public foul sewer situated at a point on the Wootton Valley Foul Sewer, Collingtree, Northampton (‘the sewer’).

Maximum quantity
to be discharged in
any 24 hour period

3. The volume of trade effluent shall not exceed 80.0 cubic metres in any period of 24 hours.

Maximum rate of
discharge

4. The rate of discharge of trade effluent shall not exceed 7.0 cubic metres per hour.

Matters to be eliminated
prior to discharge to the
sewer.

5. (a) There shall be eliminated from the trade effluent prior to the monitoring point and before the trade effluent is discharged to sewer:
- (i) Petroleum spirit and other volatile or flammable organic solvents.
 - (ii) Calcium carbide.
 - (iii) Sludges arising from the pre-treatment of the trade effluent.
 - (iv) Waste liable to form viscous or solid coatings or deposits on or in any part of the sewerage system through which the trade effluent is to pass.
 - (v) Any substance which is likely to give rise to the production in the receiving sewerage system or sewage treatment works of fumes, gases or odours which are inflammable or obnoxious, or prejudicial to health or a nuisance within the meaning of section 79 of the Environmental Protection Act 1990.
 - (vi) Halogenated hydrocarbons unless specified in 5(b).
 - (vii) Halogen substituted phenolic compounds unless specified in 5(b).
 - (viii) Thiourea and its derivatives unless specified in 5(b).
 - (ix) Any substance or combination of substances likely to affect prejudicially the sewerage system, the effective and economic treatment of sewage at the receiving sewage treatment works or the lawful disposal of effluent or sludge arising from that works.
 - (x) Substances listed in Schedule 1 of the Trade Effluent (Prescribed Processes and Substances) Regulations 1989; at a concentration greater than the background concentration (see Appendix I to this Direction for the listing of Prescribed Substances) unless specified in section 5(b) below.

- 5 (b) The trade effluent when passing through the monitoring point shall not exceed any of the composition or quality standards set out below:

Chemical oxygen demand (after one hours quiescent settlement)	3000 mg/l
Sulphate (expressed as SO ₄)	1000 mg/l
Fat, oil & grease (expressed as non-volatile matter extractable by 40°/60°C petroleum ether)	250 mg/l
Suspended solids	200 mg/l
Ammonia (expressed as N)	1200 mg/l
Chromium	0.25 mg/l
Copper	0.15 mg/l
Nickel	0.25 mg/l
Zinc	3 mg/l

mg/l = milligrammes per litre

ug/l = microgrammes per litre

- Temperature
6. The trade effluent shall have a temperature not higher than 45° Celsius.
- Acidity or Alkalinity
7. The trade effluent shall have a pH value not less than 6.0 or greater than 10.0.
- Payment
8. The trader shall pay to Anglian Water in respect of the discharge of trade effluent authorised under this consent, charges fixed in accordance with the charges scheme made from time to time by Anglian Water under Section 143 of the Act.
- Entry and samples
9. The trader shall permit Anglian Water's duly authorised representatives to inspect, examine, take readings from and test at any time any works and apparatus installed in connection with the trade effluent and to take samples of the trade effluent.
- Inspection chamber
10. In addition to the monitoring point referred to in condition 2 above, the trader shall provide and maintain if required by Anglian Water a further monitoring point or points in a suitable position(s) in connection with each pipe through which the trade effluent is being discharged and such inspection chamber(s) or manhole(s) shall be so constructed and maintained by the trader as to enable duly authorised representatives of Anglian Water readily to take samples at any time of the trade effluent passing into the sewer from the premises and to take readings from any apparatus located in such an inspection chamber or manhole.
- Measurement and determination of discharge
11. The trader shall provide and maintain if required by Anglian Water a notch gauge and continuous recorder and/or some other approved apparatus suitable and adequate for measuring and automatically recording the volume, rate of discharge and nature of the trade effluent to the satisfaction of Anglian Water in connection with every pipe through which trade effluent is being discharged.
- Calculation of charges if measuring and recording apparatus fails to measure correctly
12. If the said measuring and recording apparatus ceases to register or measure correctly then, unless otherwise agreed, the quantity of trade effluent discharged into the sewer during the period from the date on which records of the volume of the trade effluent discharged into the sewer were last accepted by Anglian Water as being correct up to the date when the said measuring and recording apparatus again registers correctly shall for the purpose of any payment to be made to Anglian Water be based on the average daily volume of the trade effluent discharged during the period of one month preceding the date on which the said records were last accepted as aforesaid, or during the month immediately after the said measuring and recording apparatus has been corrected, whichever is the higher.

Records

13. The trader shall provide records in such form as Anglian Water may require of the volume, rate of discharge, nature and composition of trade effluent discharged into the sewer and these shall be available at all reasonable times for inspection by duly authorised representatives of Anglian Water. Copies of such records shall be sent to Anglian Water on demand.

Changes to processes

14. The trader shall forthwith give to Anglian Water notice in writing of any change or proposed changes in the flow, the process of manufacture or nature of the raw materials used or of any other circumstances which may alter the nature and composition of the trade effluent or may result in cessation of the discharge.

Appendices

15. The Appendices to this Consent shall form part of this Consent for all purposes and the terms of the Appendices shall be complied with accordingly.

Definitions

16. References to the Act are to the Water Industry Act 1991, as amended, and references to any Act, Regulations or Order include any amendment or replacement. Except where a contrary intention is intended, any term defined in the Act shall be given the same meaning in this consent.

Duly authorised to sign on this behalf:

Signed.....
Trade Effluent Scientist

Dated this..... day of 2009

NOTE 1:

Your attention is drawn to the right to appeal to the Water Services Regulation Authority ("WSRA") conferred by Section 126(1) of the Act which reads as follows:

- 'The owner or occupier of any trade premises may -
- (a) within two months of the giving to him under subsection (5) of section 124 of a notice of a direction under that section; or
- (b) with the written permission of the WSRA, at any time,

appeal to the WSRA against the direction.'

NOTE 2:

This consent variation has been issued to reflect (i) the EA requirement to increase daily & hourly flow rates, and (ii) amend Section 5(b) limits to meet current trade effluent requirements

APPENDIX**Trade Effluent (Prescribed Processes and Substances) Regulations 1989****Prescribed Substances - Schedule 1**

Mercury and its compounds	Dichlorvos
Cadmium and its compounds	1,2-Dichloroethane
gamma-Hexachlorocyclohexane	Trichlorobenzene
DDT	Atrazine
Pentachlorophenol	Simazine
Hexachlorobenzene	Tributyltin compounds
Hexachlorobutadiene	Triphenyltin compounds
Aldrin	Trifluralin
Dieldrin	Fenitrothion
Endrin	Azinphos-methyl
Carbon tetrachloride	Malathion
Polychlorinated biphenyls	Endosulphan

Reason for consent

This consent document has been issued for the following reasons:

- to allow you to use our trade effluent service
- to define the level of service offered by Anglian Water in respect of that service
- to protect public health and that of our employees
- to protect the environment
- to protect our infrastructure, processes and product
- to ensure compliance with the regulatory regime.

You must comply with the consent conditions at all times. Failure to do so may lead to enforcement action being taken against you by Anglian Water.

Contact Details

Your Anglian Water contact for all trade effluent matters is detailed in the covering letter associated with this document.

In case of an out of hours emergency you must contact Anglian Water via the Helpline on 08457 145145.

Further contact details may also be obtained from the Anglian Water website located at www.anglianwater.co.uk

Consent History

The following represents a listing of consent documents associated with this discharge:

- WCB 64 - 29/11/1990 - Sandspinnners Ltd - Original consent
- ADK 93 - 02/07/1999 - Sandspinnners Ltd - Variation
- ADO 263 - 14/06/2004 - Landfill Site - Variation
- ADU 106 - 19/05/2009 - Viridor Waste Wootton Limited - Variation



Registered Office: Intec, Parc Menai, Bangor, Gwynedd, LL57 4FG

Tel: 01248 672666

Fax: 01248 672601

Email: contact@caulmert.com

Web: www.caulmert.com