

CAULMERT LIMITED

Engineering, Environmental & Planning
Consultancy Services

Yanley Landfill Site

Viridor Waste Exeter limited

Variation Supporting Document

Environmental Permit Variation Application

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APPROVAL RECORD

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Client: Viridor Waste Exeter limited

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4898-CAU-XX-XX-DR-V-1801 Sensitive Receptors Plan
YAN3000 Yanley Landfill MEPP – Monitoring Extraction Point Plan

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Appendix 3: Date of Birth information
Appendix 4: ISO 14001 Certificate
Appendix 5: CEMS Certificate
Appendix 6: Letter of Authorisation

1. INTRODUCTION

1.1 Application context

1.1.1 Viridor Waste Exeter Limited (hereafter referred to as the 'Operator') have appointed Caulmert Limited to prepare an application to vary the existing permit for Yanley Landfill Site located in Bristol for the installation of a methane stripping plant.

1.1.2 Yanley Landfill site is located off Bridgewater Road in the district of North Somerset at National Grid Reference (NGR) St 55595 69790. The closest residential area is approximately 150metres from the permitted boundary to the west of the site in the hamlet of Yanley. Long Ashton is located northwest with the closest residential properties located less than 500metres from the site. The landfill is regarded as 'definitively closed' by the Environment Agency following the cessation of waste deposit in 2009 but continues to be regulated under Section 5.2 (A(1)(a) of the EPR.

1.2 Application Proposal

1.2.1 The Operator proposes the installation of the Methane Stripping Plant (MSP) with a treatment capacity of 50 or more tonnes a day. Viridor Waste Exeter Limited holds an installation permit at Yanley Landfill Site under permit ref: EPR/BT7272IW.

1.2.2 It is proposed to vary the permit to install a methane stripping plant at site to treat the leachate before it is discharged to foul sewer and then subsequently treated further at the Avonmouth sewage treatment works (Bristol) then final discharge to the sea. The Operator wishes to discharge up to 100m³ of treated effluent per day within limits imposed by the Trade Effluent Consent (Appendix 1). As the treatment operation will be 50 or more tonnes per day, it will be added to the current permit as a listed activity. It is proposed to utilise existing connections, however the construction of new pipework infrastructure for effluent discharge from the new MSP may be required which will connect to the foul sewer network owned by Wessex Water. Effluent samples will be taken and monitored at the trade effluent discharge point as it leaves the site boundary and enters the foul sewer as shown as 'YN/501' in 'Yanley Landfill Monitoring & Extraction Point Plan', drawing ref: YAN3000.

1.2.3 Yanley Landfill Site is already served with a leachate storage lagoon constructed from HDPE membrane liner with a storage volume of approximately 600m³, 18m wide by 28m long and is approximately 3m deep. The lagoon is constructed from an HDPE membrane liner. Raw leachate is pumped into the lagoon and also withdrawn from the lagoon and pumped to sewer. For the last few years, the lagoon has been by-passed and exists only as an emergency outlet should there be an issue with discharging to sewer. It is believed that a suitable MSP plant could be installed within the fenced area surrounding the lagoon area.

- 1.2.4 The MSP will be added to the permit as a listed physico-chemical treatment activity to the permit – Section 5.4 Part A(1)(a)(ii) leachate treatment plant with a capacity of 50 or more tonnes a day. It is considered that addition of the activity will constitute a variation application assuming the treatment capacity of >50tonnes per day of non-hazardous leachate.

1.3 Document structure

- 1.3.1 This Supporting Document has been prepared to provide additional information to support the information requested in Part C2 of the environmental permit application forms for varying a bespoke permit. To aid cross-referencing between this document and the application forms, the various issues are presented in the same order as in the application form and the headings in this document include the specific question number to which the information relates.

- 1.3.2 The Part C3 form requests information about the activities the variation relates to and the operating techniques that will apply to them. Details of the Part C3 form are included in the 'Activities & Operative Techniques Report', document ref: 4898-CAU-XX-XX-RP-V-0302, Information is requested on: -

- a) Activities to be varied;
- 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 (e.g. the combustion sector and the hazardous and non-hazardous waste recovery and disposal sector);
- h) Monitoring of point source emissions;
- i) Resource efficiency and climate change.

2. PART A- ABOUT YOU**2.1 Directors Details (Part A question 5c)**

2.1.1 Information on Viridor Waste Exeter Limited company directors are detailed below:

Name	Role
Lyndi Margaret Hughes	Secretary
Kevin Michael Bradshaw	Director
Nicholas William Maddock	Director

2.1.2 Dates of birth information is only required for new permit applications or transfer, therefore these details are not included within this application.

3. PART C2 – GENERAL – VARYING A BESPOKE PERMIT**3.1 Pre-application discussions (Part C2 question 1a)**

3.1.1 No pre-application enquiries have been requested for Yanley Landfill Site.

3.2 Permit number (Part C2 question 1b)

3.2.1 The permit for which this variation relates is permit EPR/BT7272IW which was applied for in November 2002 and determined in March 2004. The most recent variation is EPR/BT7272IW /V009 which was issued in February 2020 following the variation and consolidation of the permit issued in the modern condition format.

3.3 Type of variation (Part C2 question 2a)

3.3.1 The application will be required to add a listed physico-chemical treatment activity to the permit (Section 5.4 Part A (1)(a)(ii) for a methane stripping plant with a capacity of 50 tonnes or more per day treating and discharging non-hazardous leachate.

3.4 Changes to existing activities (Part C2 question 2b)

3.4.1 Part C2 Question 2 requires Table 1 completing to describe changes to the existing activities which has been summarised in Table 1 below.

Table 1 Additional Schedule 1 Activity

Name	Installation Schedule 1 reference	Description of the installation activity	Proposed changes
Yanley Landfill Site	Section 5.4 leachate treatment plant with a capacity of 50 or more tonnes a day	Landfill for non-hazardous waste with a separate cell for non-reactive asbestos waste.	Treatment will not exceed 100m ³ in any 24hour period to meet the agreed trade effluent consent with Wessex Water. As this is below the treatment capacity of 50 tonnes or more per day and the leachate is non-hazardous, the MSP will be added to the current permit as a listed activity for leachate treatment of non-hazardous waste for disposal.

3.5 Relevant offences (Part C2 question 3a)

3.5.1 The application form specifies that details of any relevant offences need to be provided when applying to add waste installations or waste operations to a permit that has not previously had them. Viridor Waste Exeter Limited have confirmed that there are no unspent conviction for any relevant persons or against the business.

3.6 Technical ability (Part C2 question 3b)

3.6.1 Viridor Waste Exeter Limited has a Competent Management Certificate which they will use to demonstrate technical competence for operating the site. Robert Hawkings provides Technical ability for Yanley Landfill Site including the treatment operations of the proposed MSP. Finances (Part C2 question 3c).

3.6.2 A copy of the relevant WAMITAB certificate is attached in Appendix 2. Date of birth information is included in Appendix 3 and must be kept confidential.

3.6.3 In addition, Viridor Waste Exeter Limited is certified under the BSI Competence Management EU Skills which demonstrate technical competence to operate the activities at Yanley Landfill Site. A copy of the certification is included in Appendix 4.

3.7 Finances (Part C2 question 3c)

3.7.1 There are no relevant persons within Viridor Waste Exeter Limited who have current or past bankruptcy or insolvency proceedings against them.

3.8 Management system (Part C2 question 3d)

3.8.1 Viridor Waste Exeter Limited operate under ISO14001 environmental management system which includes practices by supporting environmental protection, pollution prevention, waste minimisation, energy and materials consumption reduction. Yanley Landfill Site is covered by this EMS, a copy of all relevant certification is included in Appendix 5.

3.9 Consultation (Part C2 question 4a)

3.9.1 Wessex Water are the sewage undertakers for all leachate arisings that are proposed to discharge from the Yanley Landfill Site methane stripping plant.

3.10 Site plans (Part C2 question 5a)

3.10.1 All site infrastructure and pipework relating to the MSP will be within the permitted site boundary. Plans that identify all of the land on which the activities will take place must be submitted, in addition a Sensitive Receptors Plan has been submitted in relation to the MSP location. Drawings have been as detailed in Table 2 below.

Table 2: Description of the submitted plans

Drawing No.	Content
4898-CAU-XX-XX-DR-V-1801	Sensitive Receptors Plan
YAN3000	MEPP Monitoring & Extraction Point Plan

3.11 Site report for additional land (Part C2 question 5b)

3.11.1 This question relates to variations which require extra land to be included in the permit and requests that relevant sections of a site condition report should be submitted if this applies.

3.11.2 As all pipework and site infrastructure relating to the Methane Stripping Plant proposed are within the original permitted boundary, there are no requirements to submit a Site Condition Report.

3.12 Non-technical summary (Part C2 question 5c)

3.12.1 The Operator, Viridor Waste Exeter Limited, currently holds a Bespoke Waste Installation Permit for Yanley Landfill Site under permit ref: EPR/BT7272IW which was determined in March 2003. A variation application was subsequently received by the Environment Agency in May 2005 and determine in July 2005 for the acceptance of asbestos wastes. The landfill site was put into 'definitively closed' phase in February 2012 for the cessation of waste acceptance. The latest variation (V009) was issued in February 2020 for the consolidation and issue in modern condition format.

3.12.2 The Operator proposes the installation of a methane stripping plant (MSP) with a treatment capacity of more than 50 tonnes per day. The MSP is being installed to remove dissolved methane in the leachate to comply with the limit required by the Trade Effluent Discharge consent. It is proposed to add the MSP as a listed activity to Table S1.1 'Activities' of the permit.

3.12.3 It is proposed to vary the Yanley Landfill Site permit for the installation of the MSP to treat landfill leachate arisings before discharge to foul sewer and subsequent treatment at the nearby sewage treatment works and final discharge to the sea. The plant will be designed to discharge 100m³ per day which is within the 100m³ daily limit of the trade effluent consent already issued by Wessex Water. This variation will also include for the construction of pipework infrastructure for effluent discharge from the MSP which will connect to the Wessex Water foul sewer network. Treated effluent will be monitored as it leaves the MSP and enters the foul sewer connection as identified in 'S1' monitoring point in the Yanley Landfill Site Monitoring Extraction Point plan, Yan3000. The MSP has been reviewed 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. The process description and BAT review is included within document ref: 4898-CAU-XX-XX-RP-V-0308.

- 3.12.4 The new MSP will remove methane gas from raw leachate liquid via a process of agitation and aeration, using the movement of air bubbles through the leachate liquid. Provided that adequate volumes of air are used during the process, concentrations of methane dissolved in the leachate will be well below explosive levels prior to discharge off-site. The process involves the agitation and movement of leachate, typically creating foam, which will be controlled by adequate dosing of an antifoam solution. Similarly, to prevent calcification within the MSP infrastructure, the airflow rate will be controlled, and an anti-scalant dosing system used, if necessary, during the treatment process. The treated leachate will be monitored at the discharge point to ensure TEDC limits are complied with before entering the public sewer network.
- 3.12.5 It is proposed that only leachate arisings from Yanley Landfill Site will be treated with no leachate accepted from any other external sources.
- 3.12.6 The application will be made under a 'Normal Variation' assuming the treatment capacity of the methane stripping plant at >50 tonnes per day of non-hazardous leachate. In addition, risk assessments undertaken for the permit variation have confirmed that there is not significant risk to the environment as a result of the proposed activities.

3.13 Adding an Installation (Part C2 question 5f)

- 3.13.1 This permit variation proposes to add an installation activity for a methane stripping plant with a capacity of 50 or more tonnes a day. It is considered that a baseline/site condition report is not required for the proposed installation activity as the MSP will sit within the footprint of the existing Yanley Landfill site, as such the soil, surface water and groundwater has been characterised over time.
- 3.13.2 Yanley Landfill Site is already served with an existing leachate storage lagoon constructed from HDPE membrane liner with a storage volume of approximately 600m³. Raw leachate from the field is pumped into the lagoon and withdrawn from the lagoon and pumped to sewer. The MSP is proposed to be constructed within the fenced area surround the lagoon area of which will remain within the landfill permit boundary. Only leachate arisings from Yanley Landfill Site will be accepted and treated at the new MSP, any potential contaminants are reflective of the waste and of the same source term already existing at Yanley Landfill Site.
- 3.13.3 An Amenity and Accidents Risk Assessment (document ref. 4898-CAU-XX-XX-RP-V-0301) has been undertaken as part of the permit variation for circumstances under which

emissions may occur. The assessment has identified that the risk associated with contamination/emissions to land, surface water and groundwater as a result of spillage and or leakage of liquids is low as it is considered that there will be negligible transfer of substances to the surrounding environment. The MSP will be provided with suitable containment to ensure that any emissions are not released to the surrounding environment.

- 3.13.4 Any potentially contaminated surface water from within the bunded area will be pumped into the methane stripping tank before being discharged via dedicated constructed pipework from the MSP effluent discharge pipe, which connects to the Wessex Water Services public foul sewer network.
- 3.13.5 Storage and treatment vessels will be subject to secondary containment measures that will conform with CIRIA C736 Class 2 Containment (UK ICOP The Establishment of Appropriate Containment Standards for Leachate Storage Infrastructure). The bunded area shall have a bund depth of 0.7m and a capacity of at least 110% of the largest vessel or 25% of the total tankage volume, whichever is the greater. Raw materials of anti-scaling and anti-foam liquids will also be stored in 25litre drums within a bunded area.
- 3.13.6 Yanley Landfill Site is already served with an established groundwater and surface water monitoring programme which includes analysis for organic compound within the groundwater at the permit boundary. Due to the position of the MSP within the wider landfill footprint, this groundwater monitoring would also cover activities included in the MSP. Therefore, it is considered that on the basis details above, no additional baseline report is required over and above that associated with the existing Yanley Landfill Site permit.

3.14 Environmental risk assessment (Part C2 question 6)

- 3.14.1 Environmental risk assessments conducted in line with the Environment Agency's GOV.UK guidance 'Risk Assessments for your environmental permit' are presented separately within this application under doc refs:

Amenity and Accidents Risk Assessment; 4898-CAU-XX-XX-RP-V-0301;

Surface Water Pollution Risk Assessment; 4898-CAU-XX-XX-RP-V-0304;

3.15 Date of birth information for Relevant Offences and/or Technical ability (Part C2 Appendix 2)

- 3.15.1 Date of birth information for Technical Ability is detailed in Appendix 3.
- 3.15.2 Date of birth information must be kept confidential and withdrawn from any public databases.

4. PART F1 CHARGES AND DECLARATIONS

4.1 Working out charges (Part F1 question 1 Table 1 & 2)

4.1.1 Viridor Waste Exeter Limited are applying to vary their permit for the operation of a methane stripping plant. The Charge activity reference is 1.17.4 for a 'Leachate treatment place with a capacity of 50 or more tonnes a day'.

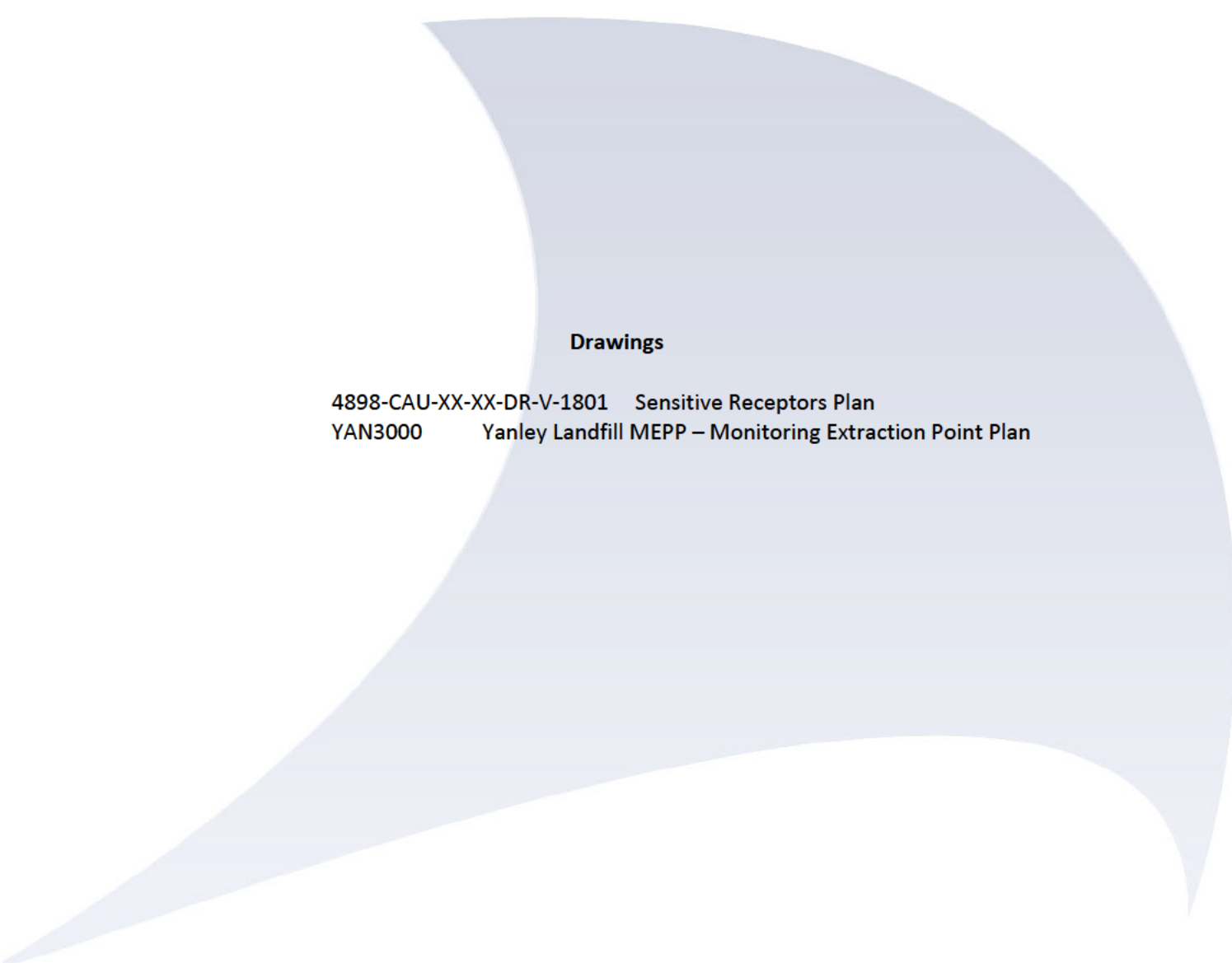
4.1.2 The permit application will be required to add the above listed activity to the permit with EA fees of £16,001. In addition, a payment of £779 will be required for a Habitats Risk Assessment.

4.2 Payment (Part F1 question 2)

4.2.1 A payment for the application of £16,780 been made via BACS under remittance number: PSCAPPBT7272IW.

4.3 Declaration (Part F1 question 5)

4.3.1 The Declaration part of the form has been authorised by the relevant person: Lisa Edmonds, a letter of authorisation has been included in Appendix 6.



Drawings

4898-CAU-XX-XX-DR-V-1801 Sensitive Receptors Plan
YAN3000 Yanley Landfill MEPP – Monitoring Extraction Point Plan

TO BE READ IN CONJUNCTION WITH MEDD TABLES FOR IN WASTE GAS MONITORING WELLS SEE THE SITE 4000 STANDARD LAYOUT

- BUILDINGS
- WATER
- ROAD
- FENCES
- LEACHATE MONITORING POINT
- LEACHATE SUMP
- PERIMETER GAS MONITORING POINT
- DUAL GAS / GROUND WATER MONITORING
- 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
- BASAL CELL BOUNDARY
- EP BOUNDARY

- (UG) UP GRADIENT
- (DG) DOWN GRADIENT
- (CG) CROSS GRADIENT
- (US) UP STREAM
- (DS) DOWN STREAM
- DIRECTION OF FLOW

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THIS DRAWING IS UNCONTROLLED CONTACT D.O. FOR LATEST ISSUE

SITE NAME
YANLEY LANDFILL

DRAWING TITLE
MONITORING & EXTRACTION POINT PLAN

DRAWING NUMBER
YAN3000

TASK NUMBER 16378

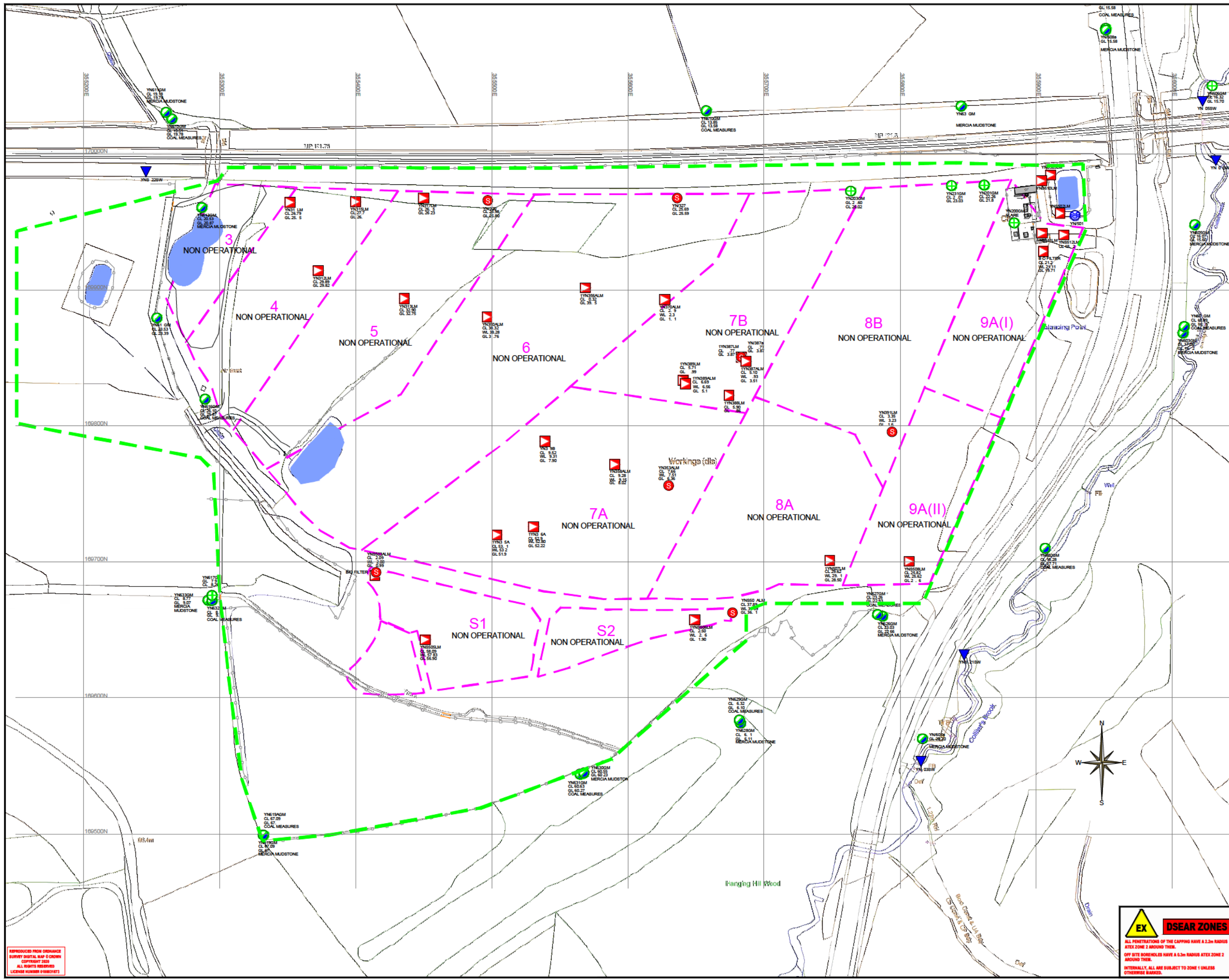
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DIDATE 15/12/2020
DIAPP D.O.Approved
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REVISION
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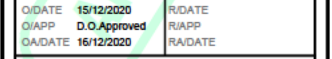
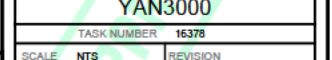
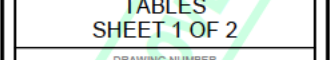
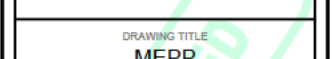
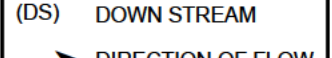
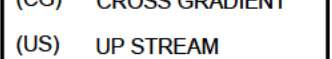
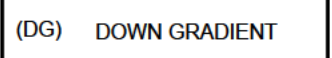
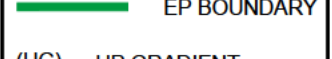
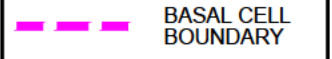
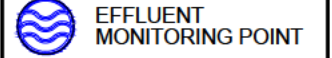
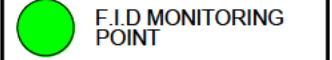
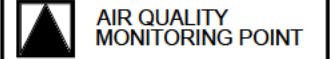
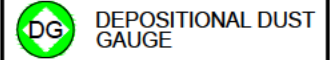
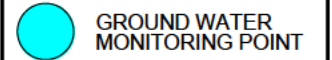
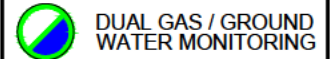
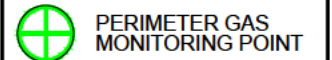
INFORMATION TAKEN FROM
SURVEY SERVICES MASTER FILE YAN0566-Feb/2020 Rev A
OTHER DRAWINGS YAN12000-Mar 2010

EX DSEAR ZONES

ALL PENETRATIONS OF THE CAPPING HAVE A 2.5m RADIUS ATEX ZONE 2 AROUND THEM.
OFF SITE BOREHOLES HAVE A 0.5m RADIUS ATEX ZONE 2 AROUND THEM.
INTERNALLY, ALL ARE SUBJECT TO ZONE 1 UNLESS OTHERWISE MARKED.



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Yanley MEPP Tables Permit Variation 008 dated 8th November 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 Phases ¹			
N/A			
Non Operational Cells or Phases ²			
Leachate compliance points: YN/312, YN/313, YN/315, YN/317, YN/320, YN/327, YN/332, YN/349B, YN/350A, YN/356A, YN/370A As shown on Drawing YAN3000	5 metres above cell base	Quarterly – spot reading	As specified in Environment Agency Guidance TGN02 (February 2003) or such other guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan.
YNS505LM, YNS506LM As shown on Drawing YAN3000	2 metres above cell base		
YN/345A, YN/358A, YN/387A, YN/383A, YN/389A, YN/391 As shown on Drawing YAN3000	5 metres above cell base	Quarterly – average	
YNS503LM, YNS504LM As shown on Drawing YAN3000	2 metres above cell base		

¹ Any cells or phases that do not have a final engineered cap agreed in accordance with the existing 'landfill engineering' condition 2.4

² Any cells or phases that have a final engineered cap agreed in accordance with the existing 'landfill engineering' condition 2.4

Permit Schedule 3, Revised Table S3.9

Table S3.9 Leachate – other monitoring requirements				
Monitoring Point Ref/Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Operational Cells or Phases ¹				
N/A				
Non Operational Cells or Phases ²				
YN/320, YN/327, YN/332, YN/391, YN/387A, YN/383A, YNS503LM, YNS504LM As shown on drawing YAN3000	pH, EC, total alkalinity, ammoniacal nitrogen, chloride, COD, BOD, cadmium, chromium, copper, lead, nickel, iron, arsenic, magnesium, potassium, total sulphates, calcium, sodium, zinc, manganese	Annually	At leachate compliance point as listed in Table S3.1. As specified in Environment Agency Guidance TGN02 (February 2003) and Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, version 2.1, December 2011, with one sampling point per cell / phase or such other subsequent guidance as may be agreed in writing with the Environment Agency.	None
YN/320, YN/327, YN/332, YN/391, YN/387A, YN/383A, YNS503LM, YNS504LM As shown on drawing YAN3000	Hazardous substances	Once every four years		
YN/320, YN/327, YN/332, YN/391, YN/387A, YN/383A, YN/381, YNS503LM, YNS504LM As shown on drawing YAN3000	Depth to base (mAOD)	Annually		

¹ Any cells or phases that do not have a final engineered cap agreed in accordance with the existing 'landfill engineering' condition 2.4

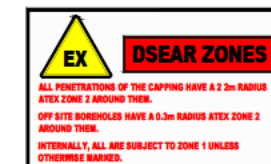
² Any cells or phases that have a final engineered cap agreed in accordance with the existing 'landfill engineering' condition 2.4

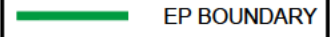
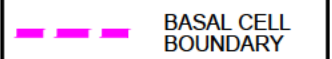
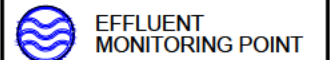
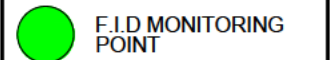
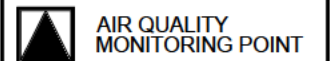
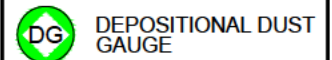
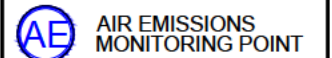
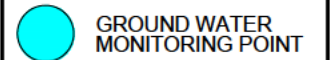
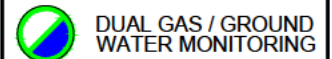
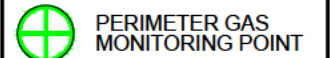
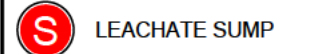
Permit Schedule 3, Revised Table S3.4

Table S3.4 Groundwater – emission limits and monitoring requirements					
Monitoring Point Ref /Description	Parameter	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
YN/605, YN/608A, YN/634	Ammoniacal nitrogen	2.0 mg/l	Spot sample	Quarterly	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02)
	Chloride	250 mg/l			
	Mecoprop	0.1 µg/l			
As shown on drawing YAN3000	Toluene	4.0 µg/l	Annually		
	m.p-xylene	3.0 µg/l			
	Mercury	0.4 µg/l			

Permit Schedule 3, Revised Table S3.7

Table S3.7 Groundwater – other monitoring requirements			
Monitoring Point Ref /Description ¹	Parameter	Monitoring frequency	Monitoring standard or method
Mercia Mudstone Up gradient: YN/619, YN/630, YN/633 Coal Measures Up gradient: YN/619A, YN/629, YN/631	Water level, electrical conductivity, chloride, ammoniacal nitrogen, pH	Quarterly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese	Annually	
	Hazardous substances	Annually for first six years of operation	
Mercia Mudstone Down or cross gradient: YN/603, YN/605, YN/608A, YN/634 Coal Measures Down or cross gradient: YN/607A, YN/610, YN/612	Water level, electrical conductivity, chloride, ammoniacal nitrogen, pH	Quarterly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency. After the initial 6 year monitoring period for hazardous substances, if the results of quarterly or annual monitoring suggest an increase in contamination, the operator shall also undertake a full leachate hazardous substances screen.
	Total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese	Annually	
	Hazardous substances detected in leachate	Annually for first six years of operation then every two years	





- (UG) UP GRADIENT
- (DG) DOWN GRADIENT
- (CG) CROSS GRADIENT
- (US) UP STREAM
- (DS) DOWN STREAM
- ➔ DIRECTION OF FLOW

Table S3.7 Groundwater – other monitoring requirements			
Monitoring Point Ref /Description ¹	Parameter	Monitoring frequency	Monitoring standard or method
Mercia Mudstone <i>Groundwater monitoring points:</i> YN/619, YN/630, YN/633, YN/603, YN/605, YN/608A, YN/634 Coal Measures <i>Groundwater monitoring points:</i> YN/619A, YN/629, YN/631, YN/607A, YN/610, YN/612	Base of monitoring point (mAOD)	Annually	

¹ As shown on drawing YAN3000

Permit Schedule 3, Revised Table S3.3

Table S3.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements						
Monitoring Point Ref /Description	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
YNS421, YNS422, YN/404, As shown on drawing YAN3000	Suspended Solids	Surface Water	100 mg/l	Spot sample	Monthly	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02)

Permit Schedule 3, Revised Table S3.10

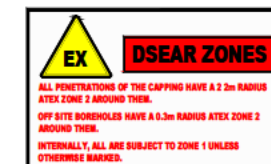
Table S3.10 Surface water – other monitoring requirements				
Monitoring Point Ref /Description	Parameter	Monitoring Frequency	Monitoring Standard or Method	Other specifications
<i>Surface water monitoring points:</i> YN/403, YN/404, YN/405, YNS421, YNS422 As shown on drawing YAN3000	Ammoniacal nitrogen Chloride Suspended solids Visual Oil and Grease pH Electrical conductivity	Monthly	Spot sample	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02)



1st Floor Riverside House, 50 Thomas Langley Road, Madley City Estate, Roches w, Kent, ME2 7JL
 Tel: 01732 220200 Fax: 01732 220280
 THIS DRAWING IS UNCONTROLLED CONTACT S.O. FOR LATEST ISSUE

SITE NAME YANLEY LANDFILL
DRAWING TITLE MEPP TABLES SHEET 2 OF 2
DRAWING NUMBER YAN3000
TASK NUMBER 16378

SCALE NTS	REVISION R/IDRN
Q/IDRN S.Robinson	R/IDRN
Q/DATE 15/12/2020	R/DATE
Q/APP D.O.Approved	R/APP
Q/DATE 16/12/2020	R/DATE
INFORMATION TAKEN FROM	
SURVEY SERVICES MASTER FILE	YAN0656-Feb 2020 Rev A
OTHER DRAWINGS YAN12000-Mar2010	

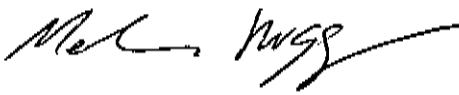




APPENDIX 1

Appendix 1: Wessex Water Trade Effluent Consent

APPROVAL FORM

DOCUMENT TITLE :	YANLEY TRADE EFFLUENT CONSENT		
ISSUE NUMBER :	One	ISSUE DATE :	8 December 2000
NEXT REVIEW DATE :	N/A	NO OF PAGES (EXCLUDING THIS ONE)	N/A
PROCEDURE & SECTION NO :	N/A		
APPROVED	SIGNATORY ONE	SIGNATORY TWO	
SIGNED :		N/A	
NAME :	M D Huggins	N/A	
POSITION :	EMS Co-ordinator	N/A	
DATE :	8 December 2000	N/A	

NB : WHERE FIELD IS NOT APPLICABLE - INSERT N/A
IS DOCUMENT ATTACHED A CONTROLLED DOCUMENT? YES/NO (Please Delete)
IF YES, REGISTRATION STAMP (Including Binder Number) :

**ENVIRONMENTAL
DOCUMENT: DC2**

**MASTER
COPY**



WESSEX WATER AUTHORITY

PUBLIC HEALTH ACT, 1936

PUBLIC HEALTH (DRAINAGE OF TRADE PREMISES) ACT, 1937

PUBLIC HEALTH ACT, 1961

WATER ACT, 1973

CONTROL OF POLLUTION ACT, 1974

CONSENT TO THE DISCHARGE OF
TRADE EFFLUENT

TO:

Terry Adams Ltd
Beech Cottage
Old Rydon Lane
EXETER
EX2 7JR

WHEREAS:

I. You have served on us the Wessex Water Authority (hereinafter referred to as 'the Authority') a Trade Effluent Notice, in pursuance of the provisions of the Public Health (Drainage of Trade Premises) Act, 1937, dated the **twenty fifth** day of **January 1988** in respect of trade premises situate at **Yanley No 3 Landfill, Bridgwater Rd., BRISTOL, Avon**

II. In pursuance of the provisions of the Public Health (Drainage of Trade Premises) Act, 1937, the discharge of trade effluent in accordance with the said trade effluent notice would not be lawful without the consent of the Authority.

III. The Authority is prepared to give such consent but subject to the conditions hereinafter set forth and to be observed by you.

IV. Any connection of your drain to the public sewer necessitated by this consent shall be made at your own expense and to the satisfaction of the Authority.

NOW THEREFORE WE HEREBY GIVE YOU NOTICE that the Authority's consent to the discharge of trade effluent from the above mentioned premises is subject to the following condition and not otherwise. —

- | | | |
|--|----|--|
| Sewers Affected | 1. | The public sewer into which the trade effluent may be discharged is the foul sewer, west of Colliter's Brook at Grid Ref: ST560 700 |
| Provision of drains for trade effluent only | 2. | If required by the Authority drains, sampling and testing points shall be provided through which trade effluent and nothing else shall pass. |
| Change in the point(s) of discharge | 3. | No change shall be made in the point or points at or through which the trade effluent is to be discharged to the public sewer except with the consent in writing of the Authority. |

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Matters to be eliminated prior to discharge to the sewer

- 4. Apart from the substances specified in this consent, the trade effluent shall not include any substances of a nature, composition or quantity likely, either alone or in combination with the contents of the sewer, to –
 - (a) injure the public sewers into which it is discharged or by which it is conveyed, or,
 - (b) interfere with the free flow of the contents of the public sewers aforesaid, or,
 - (c) injure the sewage treatment works or any machinery or equipment installed thereat, or
 - (d) interfere with any processes of purification of sewage or trade effluent, or,
 - (e) cause a nuisance or give off a vapour or harmful substance, or
 - (f) affect prejudicially the quality of the watercourse receiving the purified sewage effluent.

Condensing water

- 5. If required by the Authority condensing and cooling water shall be eliminated from the effluent.

Changes in composition and cessation of discharge

- 6. THE AUTHORITY SHALL BE NOTIFIED FORTHWITH IN WRITING OF ANY CHANGES IN CONDITIONS AND OR PROCESSES WHICH ARE LIKELY TO ALTER THE NATURE OR COMPOSITION OF THE EFFLUENT AND ALSO THE PERMANENT CESSATION OF THE DISCHARGE IN WHICH LATTER CASE THIS CONSENT BECOMES VOID.

Nature or composition

- 7. The trade effluent to be discharged under this consent shall consist of waste water specified in the said trade effluent notice and derived from leachate from Landfill site

pH Value

- 8. The pH of the trade effluent to be discharged under this consent shall not be less than pH 6 or greater than pH.10

Temperature

- 9. The temperature of the trade effluent to be discharged under this consent shall not exceed 43.3°C (110° F).

Conditions of acceptance

- 10. The effluent shall not contain the substances listed in the Appendix in proportions greater than those stated.

Maximum amount to be discharged in any day

- 11. The maximum quantity of trade effluent which may be discharged into the public sewer on any one day of 24 hours shall not exceed 100 cubic metres (m³).

Maximum rate of discharge

- 12. The rate of discharge of trade effluent to the public sewer shall not exceed 12.0 litres per second (l/s).

Inspection Chamber

- 13. You shall, if required by the Authority at your own expense:–
 - (a) provide and maintain suitable inspection chambers or manholes in a position and of a type to be approved by the Authority in connection with each pipe or channel through which the trade effluent is discharged into the public sewer, so as to enable a person readily to take at any time a sample of the trade effluent passing into the public sewer.

Measurement and determination of discharge

- (b) provide and maintain in connection with every such pipe or channel either a notch gauge and continuous recorder or some other meter or other apparatus of a type approved by the Authority suitable and adequate for measuring and automatically recording the volume and rate of discharge of the trade effluent discharged into the public sewers, and for the testing of such apparatus.

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13. Cont/...

- (c) provide and maintain apparatus to be approved by the Authority for determining the nature and composition of the trade effluent being discharged from the premises into the public sewer, and for the testing of such apparatus.
- (d) provide and maintain suitable and adequate treatment plant for the trade effluent if it is shown to be necessary.
- (e) keep to the satisfaction of the Authority records of the volume, rate of discharge, nature and composition of any trade effluent discharged and records of readings of meters and other apparatus provided in compliance with the conditions of this consent.

Payment

14.

- (a) Subject to Section 59 (1) (e) of the Public Health Act, 1961 or any amendments, variations or modifications thereof, the occupier of the said premises shall pay to the Authority such charges as determined by the charging rates as the Authority may so prescribe.
- (b) A Schedule of charging rates including the methods by which, and the principles on which the charges are made, may be inspected during normal business hours at the Divisional Office of the Authority as designated in paragraph d below or at the Principal Offices of the Authority, namely Wessex House, Passage Street, Bristol.
- (c) All payments arising from the charges as levied by the Authority in respect of such Trade Effluent consents shall be paid on demand.
- (d) All sums due in respect of charges should be remitted (unless otherwise specified by the Authority) to the Authority's Divisional Offices at
1 Clevedon Walk
Nailsea
BRISTOL BS19 2QR
- (e) The granting of time or any indulgence of any nature by the Authority shall not affect or invalidate the rights of the Authority or affect, reduce or mitigate the liability of the Occupier.

Failure of recording apparatus

15.

If any notch gauge or recorder or other apparatus installed for the purpose of complying with conditions imposed by this consent ceases to measure or record or is suspected of not measuring or recording correctly, the quantity of trade effluent discharged on each day into the public sewer during the period from the date on which the records of the volume of trade effluent discharged into the public sewer were last accepted by the Authority as being correct, up to the date when the gauge or recorder or other apparatus again registers correctly, shall be deemed for the purpose of any payment to be made to the Authority to be the same quantity as the average daily volume of 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 period of one month immediately after the gauge or recorder or other apparatus has been correct, whichever is the greater.

Charging information

16.

All information, figures and records, including those relating to water consumption, required by the Authority for the assessing of their charge for reception, conveyance and disposal of the effluent must be given on request.

Dated this

1 day of

August 19 99

Divisional General Manager

For and on behalf of the Authority

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DOCUMENT: DC2**

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Page 4 of 8

Your attention is drawn to the right of appeal to the Secretary of State for the Department of the Environment which is conferred by Section 3 of the Public Health (Drainage of Trade Premises) Act, 1937, (as amended by Section 86 of the Fifth Schedule of the Public Health Act, 1961) on any person who is aggrieved by a condition attached to a consent.

Your attention is also drawn to Section 61 of the Public Health Act, 1961, which provides that, on such an appeal, the Minister may review all the conditions attached to the consent, whether appealed against or not, and may substitute for them any other set of conditions, whether more or less favourable to the appellant, or may annul the conditions. The Minister may include provision as to the charges to be made in pursuance of any condition attached to a consent for any period before the determination of the appeal. He may also give a direction that no trade effluent shall be discharged in pursuance of the trade effluent notice in question until a specified date, or vary such a direction by the local authority by substituting either an earlier or a later date specified in the direction.

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Terry Adams Ltd - Yanley

Wessex Water

WATER INDUSTRY ACT 1991

NOTICE OF DIRECTION

TO: Terry Adams Limited
Greendale Court
Clyst St Mary
Exeter EX5 1AW

WHEREAS:

Trade effluent is now discharged from the premises situate at Yanley No. 3 Landfill, Bridgwater Road, Bristol

(hereinafter referred to as 'the said premises') under a Consent by Wessex Water Services Limited *(hereinafter recorded as 'the Company')*

NOW THEREFORE the Company HEREBY GIVE NOTICE OF THEIR DIRECTION pursuant to Section 124 of the Water Industry Act 1991

that as from the 26th day of October 1994

the said Consent shall be varied to the extent set out in the Schedule overleaf.

Dated this

18 day of AUGUST 1994

For and on behalf of Wessex Water Services Ltd

.....
R Lacey

Richard Lacey
Divisional Manager

DC2ENVIRONMENTAL
DOCUMENT: DC2

Page 6 of 8

SCHEDULE**MASTER
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The Technical Appendix to the Consent shall be in accordance with the attached conditions of discharge which replaces any previous Technical Appendix.

NOTE

Your attention is drawn to the right of appeal to the Director General of Water Services which is conferred by Section 126(1) of the Water Industry Act 1991.

"The owner or occupier of any trade premise may -

- (a) within two months of the giving to him under subsection(5) of Section 124 of a notice of direction under that section, or
- (b) with the written permission of the Director, at any later time, appeal to the Director against the direction."

The logo for Wessex Water, featuring the words "Wessex Water" in a stylized, cursive font.

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Page 7 of 8

CONSENT APPENDIX 1

The effluent shall not at any time include the following substances:

- a Volatile petroleum products producing an inflammable vapour at a temperature of less than seventy three degrees Fahrenheit when tested in accordance with the Petroleum (Consolidation) Act 1928
- b Chlorinated hydrocarbons and related compounds
- c Calcium carbide

CONSENT APPENDIX 2

1. Suspended solids shall not exceed 500 milligrams per litre (mg/l) of effluent.
2. The metals listed below shall not individually exceed the concentration stated in milligrams per litre (mg/l) of effluent of soluble or insoluble salts of compounds expressed as the metal:
 - a. Chromium (Cr) shall not exceed 2.5 mg/l of effluent
 - b. Nickel (Ni) shall not exceed 2.5 mg/l of effluent
 - c. Copper (Cu) shall not exceed 2.5 mg/l of effluent
 - d. Zinc (Zn) shall not exceed 2.5 mg/l of effluent
 - e. Lead (Pb) shall not exceed 2.5 mg/l of effluent
3. The total sulphate content of the effluent expressed as SO_4 shall not exceed 1000 milligrams per litre (mg/l) of effluent.
4. The total sulphide content of the effluent expressed as S shall not exceed 5 milligrams per litre (mg/l)

CONSENT APPENDIX 3

The effluent shall not contain materials which may be retained by a screen having perforations of 6mm in diameter.

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Terry Adams - Yanley No. 3

Wessex Water Services Limited

WATER INDUSTRY ACT 1991

NOTICE OF DIRECTION

TO: Terry Adams Limited
Greendale Court
Clyst St Mary
Exeter
EX5 1AW

WHEREAS:

Trade effluent is now discharged from the premises situate at Yanley No. 3 Landfill, Bridgwater Road, Bristol

(hereinafter referred to as 'the said premises') under a Consent by Wessex Water Services Limited *(hereinafter recorded as 'the Company')*

NOW THEREFORE the Company HEREBY GIVE NOTICE OF THEIR DIRECTION pursuant to Section 124 of the Water Industry Act 1991

that as from the 18th day of December 1995

the said Consent shall be varied to the extent set out in the Schedule overleaf.

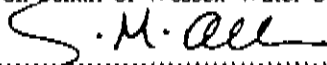
Dated this

17th

day of

October 19 95

For and on behalf of Wessex Water Services Ltd



S M Allen

Divisional Manager



APPENDIX 2

Appendix 2: Technical Ability certificate



Continuing Competence Certificate

This certificate confirms that

Robert Hawkins

Has met the relevant requirements of the Continuing Competence scheme for the following award(s) which will remain current for two years from 09/10/2020

LH	Landfill - Hazardous Waste
TSH	Transfer - Hazardous Waste
TMH	Treatment - Hazardous Waste

Expiry Date:
09/10/2022

Verification date: 28/09/2020

Authorised:

A handwritten signature in black ink, appearing to read "A. Hockley".

Director of Qualifications and Standards

Learner ID: 12088

Certificate No.: 5170037

Date of Issue: 09/10/2020

A handwritten signature in black ink, appearing to read "D. Owen".

CIWM Chief Executive Officer



The Chartered Institution
of Wastes Management



00151534

WAMITAB

WASTE MANAGEMENT INDUSTRY TRAINING AND ADVISORY BOARD

CERTIFICATE No: 05283

CERTIFICATE OF TECHNICAL COMPETENCE

This Certificate confirms that

Robert John Samuel Hawkins

has demonstrated the standard of technical competence required for the management
of a facility of the type set out below

Facility Type:

Level 4 in Waste Management Operations -

Managing Landfill Hazardous Waste (4LH)



Authorising Signatures:

Director General

Director

Date of issue:

12 June 2003

WAMITAB

WASTE MANAGEMENT INDUSTRY TRAINING AND ADVISORY BOARD

CERTIFICATE No: 09659

CERTIFICATE OF TECHNICAL COMPETENCE

This Certificate confirms that

Robert John Samuel Hawkins

has demonstrated the standard of technical competence required for the management
of a facility of the type set out below

Facility Type:

Level 4 in Waste Management Operations -

Managing Treatment Hazardous Waste (4TMH)



Authorising Signatures:

Director General

Director

Date of issue:

[Signature]
[Signature]
09 April 2008



APPENDIX 3

Appendix 3: Date of Birth information

PRIVATE AND CONFIDENTIAL INFORMATION

Relevant Persons Date of Birth

Robert Hawkins





APPENDIX 4

Appendix 4: ISO 14001 Certificate

Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to certify that:

Viridor Waste Management Limited
Viridor House
Youngman Place
Priory Bridge Road
Taunton
TA1 1AP
United Kingdom

Holds Certificate Number:

EMS 36550

and operates an Environmental Management System which complies with the requirements of ISO 14001:2015 for the following scope:

The management, operation and associated support services for recycling and resource activities; including composting, recycling of glass, electrical, paper, metals and plastic, recovery of energy from non-recyclable residual wastes (including anaerobic digestion, gas extraction and thermal technologies), the collection, transfer and transportation of recyclates, and safe disposal of residual wastes.

For and on behalf of BSI:



Andrew Launn, EMEA Systems Certification Director

Original Registration Date: 1997-03-25

Latest Revision Date: 2019-08-19

Effective Date: 2018-09-18

Expiry Date: 2021-09-17



003

Page: 1 of 2

...making excellence a habit.™

Certificate No: EMS 36550

Location

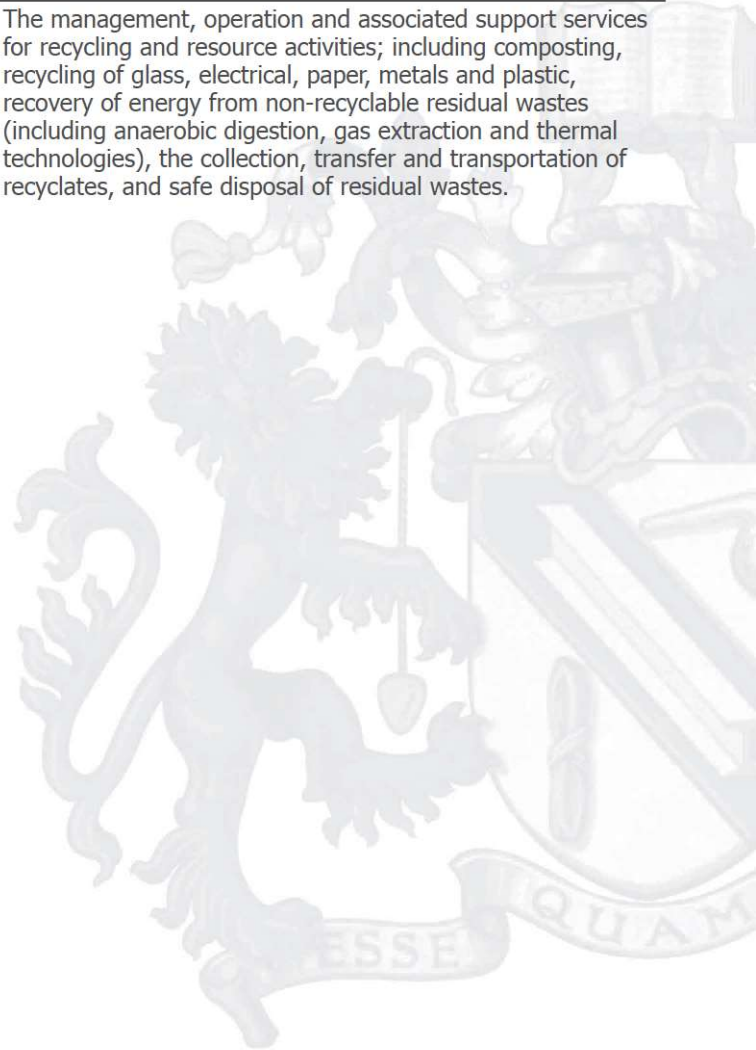
Viridor Resource Management Ltd
1st Floor Riverside House
Sir Thomas Longley Road
Medway City Estate
Rochester
Kent
ME2 4FN
United Kingdom

Registered Activities

The management, operation and associated support services for recycling and resource activities; including composting, recycling of glass, electrical, paper, metals and plastic, recovery of energy from non-recyclable residual wastes (including anaerobic digestion, gas extraction and thermal technologies), the collection, transfer and transportation of recyclates, and safe disposal of residual wastes.

Viridor Waste Management Limited
Viridor House
Youngman Place
Priory Bridge Road
Taunton
TA1 1AP
United Kingdom

The management, operation and associated support services for recycling and resource activities; including composting, recycling of glass, electrical, paper, metals and plastic, recovery of energy from non-recyclable residual wastes (including anaerobic digestion, gas extraction and thermal technologies), the collection, transfer and transportation of recyclates, and safe disposal of residual wastes.



Original Registration Date: 1997-03-25

Latest Revision Date: 2019-08-19

Effective Date: 2018-09-18

Expiry Date: 2021-09-17

Page: 2 of 2

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.
An electronic certificate can be authenticated [online](#).
Printed copies can be validated at www.bsigroup.com/ClientDirectory

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 345 080 9000
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A Member of the BSI Group of Companies.



APPENDIX 5

Appendix 5: CEMS Certificate

Certificate of Registration

Competence Management EU skills V4 2015

This is to certify that:

Viridor Waste Limited
and its subsidiary companies
Viridor House
Youngman Place
Priory Bridge Road
Taunton
TA1 1AP
United Kingdom

Holds Certificate Number:

CMSS 608567

and operates a Competence Management System which complies with the Energy and Utility Skills version 4, April 2015 requirements for the following scope:

The management, operation and associated support services for recycling and resource activities; including composting, recycling of glass, electrical, paper, metals and plastic, recovery of energy from non-recyclable residual wastes (including anaerobic digestion, gas extraction and thermal technologies), the collection, transfer and transportation of recyclates, and safe disposal of residual wastes.

For and on behalf of BSI:

Andrew Launn, EMEA Systems Certification Director

Original Registration Date: 2014-09-22

Effective Date: 2020-09-22

Latest Revision Date: 2021-01-15

Expiry Date: 2023-09-21



Page: 1 of 2

...making excellence a habit.™

Certificate No: CMSS 608567

Location	Registered Activities
Viridor Waste Limited and its Subsidiary Companies Viridor House Youngman Place Priory Bridge Road Taunton TA1 1AP United Kingdom	The management, operation and associated support services for recycling and resource activities; including composting, recycling of glass, electrical, paper, metals and plastic, recovery of energy from non-recyclable residual wastes (including anaerobic digestion, gas extraction and thermal technologies), the collection, transfer and transportation of recyclates, and safe disposal of residual wastes.
Viridor Energy Limited Viridor House Youngman Place Priory Bridge Road Taunton TA1 1AP United Kingdom	The management, operation and associated support services for recycling and resource activities; including composting, recycling of glass, electrical, paper, metals and plastic, recovery of energy from non-recyclable residual wastes (including anaerobic digestion, gas extraction and thermal technologies), the collection, transfer and transportation of recyclates, and safe disposal of residual wastes.
Viridor Waste Management Limited Viridor House Youngman Place Priory Bridge Road Taunton TA1 1AP United Kingdom	The management, operation and associated support services for recycling and resource activities; including composting, recycling of glass, electrical, paper, metals and plastic, recovery of energy from non-recyclable residual wastes (including anaerobic digestion, gas extraction and thermal technologies), the collection, transfer and transportation of recyclates, and safe disposal of residual wastes.

Original Registration Date: 2014-09-22

Latest Revision Date: 2021-01-15

Effective Date: 2020-09-22

Expiry Date: 2023-09-21

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This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.

An electronic certificate can be authenticated [online](#).

Printed copies can be validated at www.bsigroup.com/ClientDirectory



APPENDIX 6

Appendix 6: Letter of Authorisation



Viridor House, Priory Bridge Rd, Taunton TA1 1AP
T: 01823 721400 www.viridor.co.uk

28 October 2020

To whom it may concern,

Permit Applications, Variations, Transfers and Surrender

I confirm that:

Lisa Edmonds

Aleks Dragicevic

Ian John

who are employed by the company, are authorised to sign EA, NRW and SEPA application form declarations on behalf of Viridor companies.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Kevin Bradshaw', with a long, sweeping underline.

Kevin Bradshaw
Chief Executive Officer

A handwritten signature in black ink, appearing to read 'Nicholas Maddock', with a horizontal line underneath.

Nicholas Maddock
Chief Financial Officer



Registered Office: Intec, Parc Menai, Bangor, Gwynedd, LL57 4FG
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Web: www.caulmert.com