

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Vertase F.L.I Limited

Groundwater remediation system
serving
Unit 101
Tenth Avenue
Deeside Industrial Park
Deeside
CH5 2UA

Permit number

EPR/BB3597HA

Groundwater remediation system serving Unit 101

Permit Number EPR/BB3597HA

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The permit is for the discharge of 150m³/day of treated contaminated groundwater. The contaminated groundwater will be abstracted and subsequently remediated prior to being discharged to ground via an infiltration system. The treatment system comprises of an oil/water separator, sand filter and primary and secondary activated carbon filters. There are monitoring and reporting requirements within the permit.

The status log of the permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit

Description	Date	Comments
Application PAN-007572	Duly made 26/11/2019	Application for discharge of remediated groundwater
Permit determined	20/03/2020	Permit issued to Vertase F.L.I Limited

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BB3597HA

The Natural Resources Body for Wales (“Natural Resources Wales”) hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

Vertase F.L.I Limited (“the operator”),
whose registered office is

**Number One
Middle Bridge Business Park
Bristol Road
Portishead
Bristol
BS20 6PN**

company registration number 03944198

to operate a groundwater activity at

**Unit 101
Tenth Avenue
Deeside Industrial Park
Deeside
CH5 2UE**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Melissa Broad	20/03/2020

Authorised on behalf of Natural Resources Wales

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

2 Operations

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green and the discharge shall be made at the point marked on the site plan at schedule 7 to this permit and as listed in table S3.2 (discharge points).

2.3 Operating techniques

2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.

- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 2.3.2 The infiltration system specified in table S1.1 shall be constructed to comply with the following:
- (a) the infiltration system shall not connect to any land drainage system;
 - (b) the infiltration system shall not be situated within 10 metres of any watercourse (including any ditch that runs dry for part of the year), or any other surface water;
 - (c) the infiltration system shall not be situated within 50 metres of a well or borehole used for water supply.

3 Emissions and monitoring

3.1 Emissions to water or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.
- 3.2.2 For the activity referenced in schedule 1, table S1.1 the operator shall take appropriate measures as far as is reasonably practicable:
 - (a) to prevent the input of hazardous substances to groundwater; and
 - (b) where a non-hazardous pollutant is not controlled by an emission limit, to limit the input of such non-hazardous pollutants to groundwater so as to ensure that inputs do not cause pollution of groundwater.

3.3 Monitoring

- 3.3.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
 - (a) point source emissions specified in tables S3.1 and S3.3;

- (b) surface water or groundwater specified in table S3.4.
- 3.3.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.3.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2, S3.3 and S3.4 unless otherwise agreed in writing by Natural Resources Wales.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
 - (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by Natural Resources Wales, for at least 6 years from the date when the records were made.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by Natural Resources Wales.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
 - (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.3 Notifications

4.3.1 Natural Resources Wales shall be notified without delay following the detection of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
- (b) the breach of a limit specified in the permit; or
- (c) any significant adverse environmental effects.
- (d) any emergency discharge that has occurred.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

4.3.4 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) Natural Resources Wales shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 Activities	
Description of activity	Limits of specified activity
Groundwater activity: Discharge into land of water abstracted from boreholes, subject to treatment for the purposes of ground remediation	Via an infiltration system centred on SJ 31956 71678

Table S1.2 Operating techniques		
Description of documentation	Parts	Date Received
Remediation Working Plan Project Neo Issue	2.2 and 2.8	18/10/2019
PAN-007572 Evidence for prevent requirements	All	26/11/2019

Schedule 2 - Waste types, raw materials and fuels

Wastes are not accepted as part of the permitted activities and there are no restrictions on raw materials or fuels under this schedule.

Schedule 3 – Emissions and monitoring

Table S3.1 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Compliance statistic
Outlet 1 on site plan in schedule 7 – Discharge of treated groundwater via infiltration system	Maximum daily discharge volume	150 m ³ /day	Total daily volume	Continuous	Maximum
	15-minute instantaneous or integrated flow	No limit set. Record as l/s.	15 minute	Continuous	N/A
	Benzene	1 µg/L	Instantaneous (spot sample)	Weekly	Maximum
	Toluene	4 µg/L	Instantaneous (spot sample)	Weekly	Maximum
	Xylenes	3 µg/L	Instantaneous (spot sample)	Weekly	Maximum
	1,2,4 Trimethylbenzene	1 µg/L	Instantaneous (spot sample)	Weekly	Maximum
	Total petroleum hydrocarbons	10 µg/L	Instantaneous (spot sample)	Weekly	Maximum
Visible oil or grease	No significant trace present	Instantaneous (spot sample)	N/A	No significant trace	

Table S3.2 Discharge points

Effluent Name	Discharge Point	Discharge point NGR	Receiving Environment
Discharge of treated groundwater via infiltration system	Outlet 1	SJ 31956 71678	Groundwater via an infiltration system

Table S3.3 Monitoring points

Effluent and discharge point	Monitoring type	Monitoring point NGR	Monitoring point reference
Treated groundwater via Outlet 1	Effluent sample point	SJ 31910 71589	Secondary GAC vessel
Treated groundwater via Outlet 1	Flow monitoring	SJ 31916 71580	Flow monitoring

Table S3.4 Surface water or groundwater monitoring requirements

Location or description of monitoring points	Parameter	Monitoring frequency	Monitoring standard or method
Monitoring boreholes BH202, 205, 204, 208, 211, 210	Benzene Toluene Xylenes 1,2,4 Trimethylbenzene Total Petroleum Hydrocarbons	Quarterly	BS ISO 5667

Schedule 4 - Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Benzene, Toluene, Xylenes, 1,2,4 Trimethylbenzene and Total petroleum hydrocarbons	Monitoring boreholes BH202, 205, 204, 208, 211, 210	Quarterly	Upon issue of permit
Benzene, Toluene, Xylenes, 1,2,4 Trimethylbenzene and Total petroleum hydrocarbons	Secondary GAC vessel	Monthly	Upon issue of permit
15-minute flow	Flow monitoring	On request	Upon issue of permit

Table S4.2 Reporting forms	
Media/parameter	Reporting format
Water and Land	Form water 1 or other form as agreed in writing by Natural Resources Wales
Total daily volume	WISKI electronic format specified by Natural Resources Wales
15-minute flow	WISKI electronic format specified by Natural Resources Wales

Schedule 5 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	EPR/BB3597HA
Name of operator	
Location of Facility	Unit 101, Tenth Avenue, Deeside Industrial Park, Deeside, CH5 2UE
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution

To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit

To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B - to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

“accident” means an accident that may result in pollution.

“annually” means once every year.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“ATU-BOD as O₂” means the biochemical oxygen demand (measured after 5 days at 20° C with nitrification suppressed by the addition of allylthiourea).

“emissions to land” includes emissions to groundwater.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

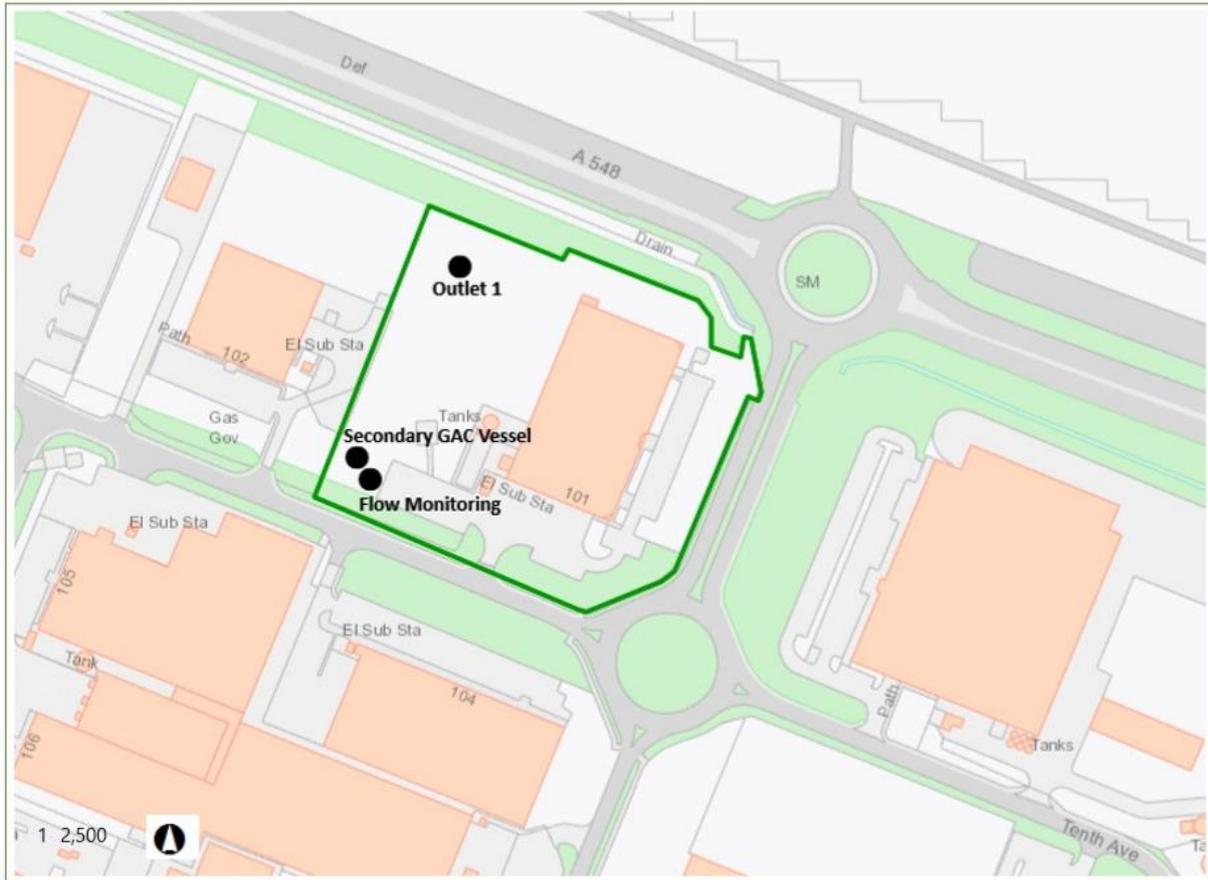
“MCERTS” means Natural Resources Wales’s Monitoring Certification Scheme.

“Natural Resources Wales” means the Natural Resources Body for Wales established by article 3 of the Natural Resources Body for Wales (Establishment) Order 2012. The Natural Resources Body for Wales (Functions) Order 2013 transferred the relevant functions of the Countryside Council for Wales, and functions of the Environment Agency and the Forestry Commission in Wales to the Natural Resources Body for Wales.

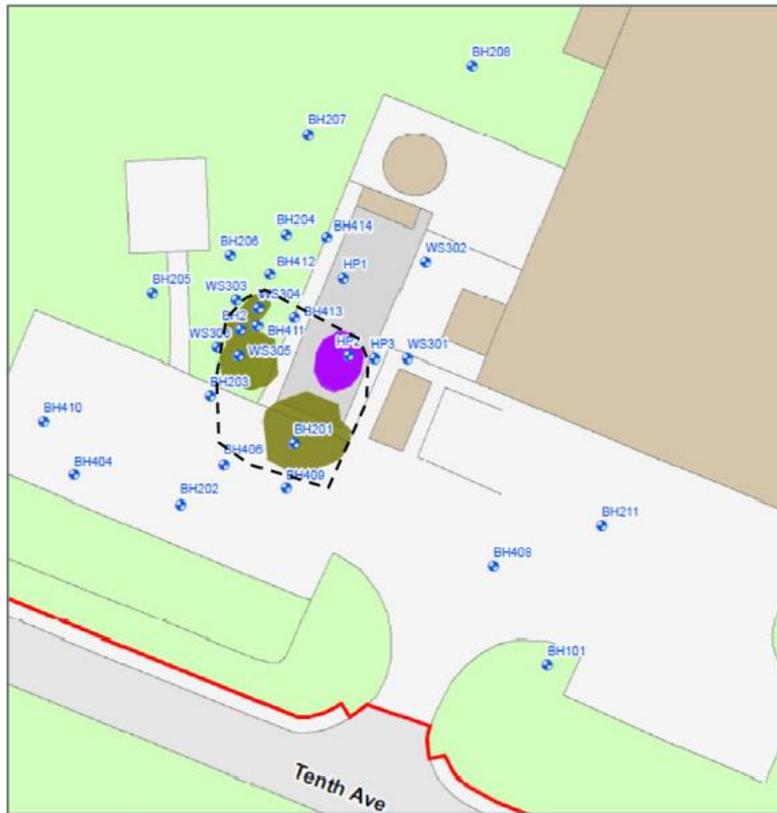
“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“year” means calendar year ending 31 December.

Schedule 7 - Site plan



Site plan a – Discharge point (Outlet 1 from S3.2) and monitoring points (Secondary GAC Vessel and Flow Monitoring from S3.3)



Site plan b – Showing requisite surveillance monitoring points (BH202, BH205, BH204, BH208, BH211)

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END OF PERMIT