ENVIRONMENT AGENCY

Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Bolton Resins

VIL Resins Ltd
Union Road
The Valley
Bolton
Lancashire
BL2 2DT

Permit number

BM0311IN

Bolton Resins
Permit Number BM0311IN

Introductory note

This introductory note does not form a part of the permit

The main features of the installation are as follows.

VIL Resins Ltd (Bolton Resins) is a family owned company formed in 1938 that specialises in the manufacture of resins, using esterification, addition reactions and polymerisation. The resins include water and solvent based systems such as alkyds, polyesters, acrylics, epoxy esters, emulsion resins and low VOC alkyd resins.

The installation occupies approx 5 acres (2.03 hectares) 2km to the north east of Bolton town centre. The installation is located within an area of industrial works within Tonge Moor Industrial Estate and Union Road. Grid reference is 372194 410289. The installation is bordered on three sides by the River Tonge. The closest residential properties are approx 150m from the site boundary on the other side of the R.Tonge.

The site has the usual services associated with the operation of an installation of this nature (maintenance, laboratories, Quality Control, sales and other office services

Materials utilised are acids (ie benzoic acid), alcohols, solvents (ie white spirit, butanol, Xylene, acetates, esters and other hydrocarbons) and monomers (i.e. acrylic acid, acrylates, styrene). Reactions take place within temperature controlled reactor systems and once complete, the product is discharged to another tank at ground floor level (ground tanks) where it is mixed with a solvent, filtered and blended prior to discharge to bulk tank storage. Products are then transferred to bulk tanker or smaller packages as required.

Aqueous waste streams are collected, treated with caustic soda for pH control and then discharged to sewer after approval from the sewerage undertaker, with samples being taken for them.

Discharges to atmosphere are controlled by fusion and condenser systems which recirculate emissions back to the reactors. The fusion systems create a liquid effluent for disposal.
Blending tanks are connected to condensers cooled by chilled water from cooling towers.

Rainwater from roofs is discharged to the river, whilst all other surface water is discharged to sewer. Waste water from processes is collected. pH adjusted and then discharged to sewer under Trade Effluent Consent issued by the Sewerage Undertaker.
The installation is accredited to ISO14001 and ISO9001 and has detailed management systems in place.

There are no European sites within 10km of the installation. The Agency concludes that the operation has no adverse effect on any Natura 2000 sites and is not considered to have an adverse effect on any important ecological sites.

Status Log of the permit		
Detail	**Date**	**Response Date**
Application BM0311IN	Duly made 19/04/2006	
Permit determined	21/12/06	

Other PPC permits relating to this installation		
Operator	**Permit Number**	**Date of Issue**
None		

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation			
Holder	**Reference Number**	**Date of Issue**	**Fully or Partially Superseded**
VIL Resins Ltd	AK7647	01/03/94	Fully superseded

Other existing Licences/Authorisations/Registrations relating to this site		
Holder	**Reference Number**	**Date of Issue**
Vil Resins	695UI01449	07/07/1999

End of Introductory Note

Permit

Permit number
BM0311IN

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) hereby authorises
VIL Resins Limited ("the operator"),

whose registered office is

Union Road
Bolton
Lancashire
BL2 2DT

Company registration number **338691**

to operate an installation at

Union Road
Bolton
Lancashire
BL2 2DT

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

Signed	Date
	21/12/2006

M J Peacock

Authorised to sign on behalf of the Agency

Conditions

1 Management

1.1 General management

1.1.1 The activities shall be managed and operated:

(a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the operator as a result of complaints; and

(b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.

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.

1.2 Accidents that may cause pollution

1.2.1 The operator shall:

(a) maintain and implement an accident management plan;

(b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;

(c) make any appropriate changes to the plan identified by a review.

1.3 Energy efficiency

1.3.1 The operator shall:

(a) take appropriate measures to ensure that energy is used efficiently in the activities;

(b) review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the activities; and

(c) take any further appropriate measures by a review.

1.4 Efficient use of raw materials

1.4.1 The operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every 4 years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any appropriate further measures identified by a review.

1.5 Avoidance, recovery and disposal of wastes produced by the activities

1.5.1. The operator shall:

(a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;

(b) review and record at least every 4 years whether changes to those measures should be made; and

(c) take any further appropriate measures identified by a review.

1.6 Site security

1.6.1. Site security measures shall prevent unauthorised access to the site, as far as practicable.

2. Operations

2.1 Permitted activities

2.1.1 The operator is 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 red on the site plan at schedule 2 to this permit.

2.3 Operating techniques

2.3.1 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 the Agency.

2.3.2 No raw materials or fuels listed in schedule 3 table S3.1 shall be used unless they comply with the specifications set out in that table.

2.4 Off-site conditions

There are no off-site conditions under this section.

2.5 Improvement programme

2.5.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Agency.

2.5.2 Except in the case of an improvement which consists only of a submission to the Agency, the operator shall notify the Agency within 14 days of completion of each improvement.

2.6 Pre-operational conditions

There are no pre-operational conditions in this permit.

2.7 Closure and decommissioning

2.7.1 The operator shall maintain and operate the activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.

2.7.2 The operator shall maintain a site closure plan which demonstrates how the activities can be decommissioned to avoid any pollution risk and return the site to a satisfactory state.

2.7.3 The operator shall carry out and record a review of the site closure plan at least every 4 years.

2.7.4 The site closure plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the activities or part thereof.

2.8 Site protection and monitoring programme

2.8.1 The operator shall, within 4 months of the issue of this permit, submit a site protection and monitoring programme.

2.8.2 The operator shall implement and maintain the site protection and monitoring programme and shall carry out and record a review of it at least every 4 years.

3. Emissions and monitoring

3.1 Emissions to water, air 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 4 tables S4.1, S4.2 and S4.3.

3.1.2 The limits given in schedule 4 shall not be exceeded.

3.2 Transfers off-site

3.2.1 Records of all the wastes sent off site from the activities, for either disposal or recovery, shall be maintained.

3.3 Fugitive emissions of substances

3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, have been taken to prevent or where that is not practicable, to minimise, those emissions.

3.3.2 No condition applies

3.3.3 No condition applies

3.3.4 All liquids, 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

3.4 Odour

3.4.1 Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measure, to prevent or where that is not practicable to minimise the odour.

3.5 Noise and vibration

3.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate to prevent or where that is not practicable to minimise the noise and vibration.

3.6 Monitoring

3.6.1 The operator shall, unless otherwise agreed in writing by the Agency, undertake monitoring for the parameters, at the locations and at not less than the frequencies specified in the following tables in schedule 4 to this permit:

(a) point source emissions specified in tables S4.1, S4.2 and S4.3;

3.6.2 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.

3.6.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme specified in condition 3.6.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing by the Agency.

3.6.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 4 tables S4.1, S4.2 and S4.3 unless otherwise specified in that schedule.

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 the Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

(i) the site protection and monitoring programme.

4.1.2 Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.

4.1.3 All records required to be held by this permit shall be held on the installation and shall be available for inspection by the Agency at any reasonable time.

4.2 Reporting

4.2.1 A report or reports on the performance of the activities over the previous year shall be submitted to the Agency by 31 January (or other date agreed in writing by the Agency) each year. The report(s) shall include as a minimum:

(a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the assessment of the impact of the emissions submitted with the application;

(b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;

(c) the annual production /treatment data set out in schedule 5 table S5.2;

(d) the performance parameters set out in schedule 5 table S5.3 using the forms specified in table S5.4 of that schedule; and

(e) details of any contamination or decontamination of the site which has occurred.

4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Agency, 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 5 table S5.1;

(b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.4 ; and

(c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.3 No condition applies

4.2.4 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.2.5 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency

4.2.6 The results of reviews and any changes made to the site protection and monitoring programme shall be reported to the Agency, within 1 month of the review or change.

4.3 Notifications

4.3.1 The Agency shall be notified without delay following the detection of:

(a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;

(b) the breach of a limit specified in the permit;

(c) any significant adverse environmental effects.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.

4.3.3 Prior written notification shall be given to the Agency of the following events and in the specified timescales:

(a) as soon as practicable prior to the permanent cessation of any of the activities;

(b) cessation of operation of part or all of the activities for a period likely to exceed 1 year; and

(c) resumption of the operation of part or all of the activities after a cessation notified under (b) above.

4.3.4 The Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.5 Where the Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.6 No condition applies

4.3.7 No condition applies

4.3.8 No condition applies

4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

(a) any change in the operator's trading name, registered name or registered office address;

(b) any change to particulars of the operator's ultimate holding company (including details of an ultimate holding company where an operator has become a subsidiary); and

(c) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

4.3.10 Where the operator has entered into a climate change agreement with the Government, the Agency shall be notified within one month of:

(a) a decision by the Secretary of State not to re-certify the agreement;

(b) a decision by either the operator or the Secretary of State to terminate the

agreement; and

(c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 7 shall have the meaning given in that schedule.

Schedule 1 - Operations

Table S1.1 activities

Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
S4.1 Part A1 (a) (viii)	Producing organic chemicals such as plastic materials such as polymers, synthetic fibres and cellulose based fibres	From receipt of raw materials to storage of finished product Materials manufactured include resins and polymers. Storage and handling of waste materials
Directly Associated Activity		
Generation heat for use within process reactions	Use of two 1.2 MW boilers fired by gas and one 0.3MW boiler fired by gas oil to produce heat for reaction processes. The boilers are used to heat, heat transfer fluids which are circulated around the reactor.	Generation of heat for use within resins manufacturing processes

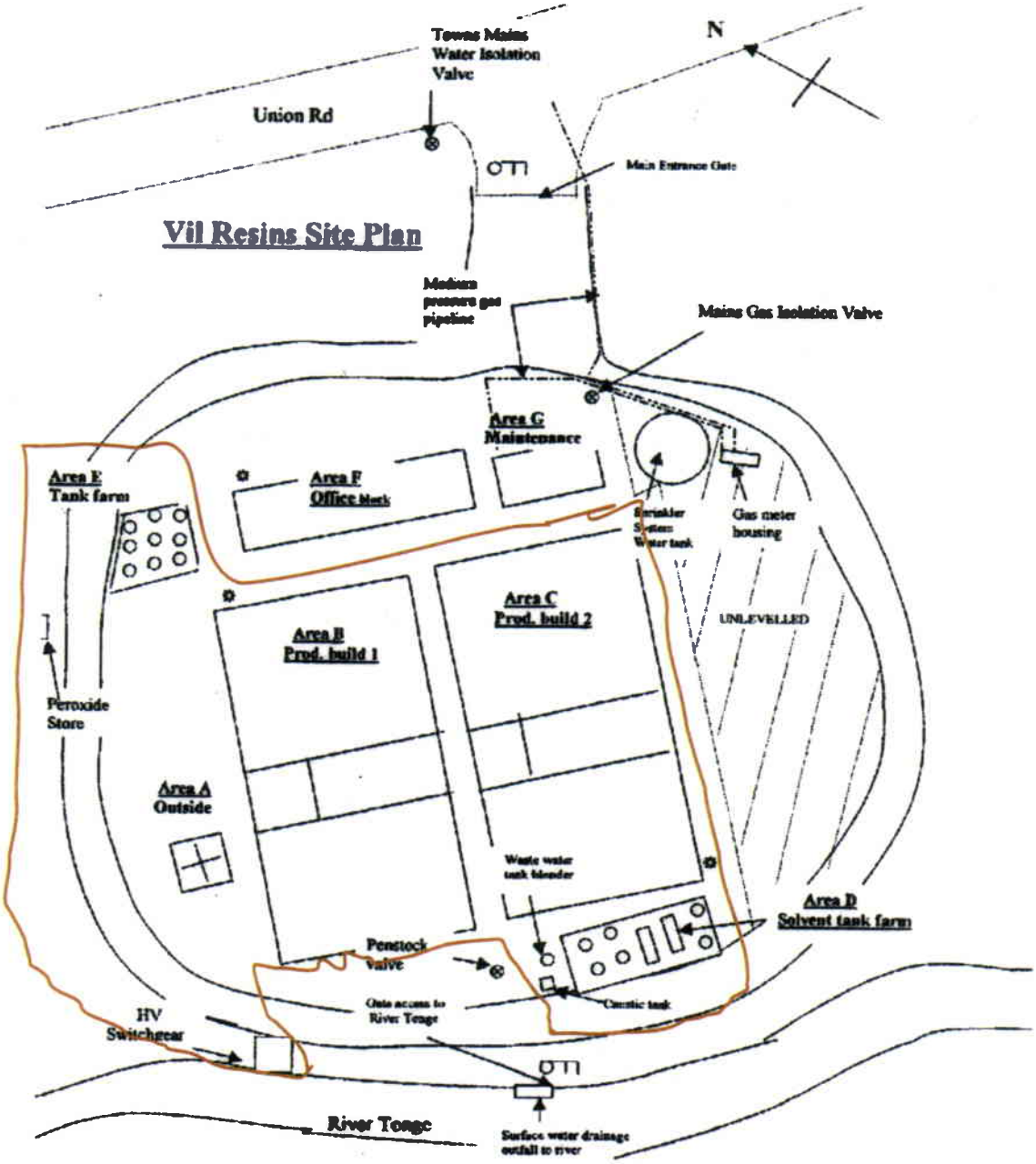
Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to section B1.1, B2.1, B2.2 and B2.10 within the application	19/04/2006

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IP1	The operator shall undertake monitoring of the aqueous effluent stream for styrene, ethyl acrylate and xylene. The Operator shall submit a report to the Agency detailing the results of this monitoring, and an assessment of impact upon the environment.	01/07/07
IP2	The operator shall develop a documented Site Closure Plan with regard to the requirements set out in Agency Guidance Note IPPC S4.02. On completion of the plan the operator shall confirm in writing to the Agency that this action has been completed.	01/01/08

Schedule 2 - Site plan



Schedule 3 - Waste types, raw materials and fuels

Table S3.1 Raw materials and fuels

Raw materials and fuel description	Specification
Gas oil	Sulphur content 0.2% by mass before 1 January 2008, 0.1% by mass on or after 1 January 2008

Schedule 4 – Emissions and monitoring

Table S4.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1	No parameters set	Boiler vent	No limit set	-	-	-
A2	No parameters set	Boiler vent	No limit set	-	-	-
A3	No parameters set	Boiler vent	No limit set	-	-	-
A4	Total VOCs	Lynchem Reactor vent	Annual limit see Table S4.4	-	6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A5	Total VOCs	Hygrotherm Reactor vent	Annual limit see Table S4.4	-	6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A6	Total VOCs	Chemline 1 Reactor vent	Annual limit see Table S4.4	-	6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A7	Total VOCs	TAS Reactor vent	Annual limit see Table S4.4	-	6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A8	Total VOCs	Chemline 2 Reactor vent	Annual limit see Table S4.4	-	6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A9	Total VOCs	Production Building 1 LEV	Annual limit see Table S4.4	-	6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A10	Total VOCs	LEV – drum filling lines, Building1	Annual limit see Table S4.4	-	-	-
A11	Total VOCs	LEV, reactors, Building 1	Annual limit see Table S4.4	-	-	-
A12	Total VOCs	LEV, reactors, building 1	Annual limit see Table S4.4	-	-	-
A13	Total VOCs	LEV, reactors sampling points Buildings 1 and 2	Annual limit see Table S4.4	-	-	-
A15a	Total VOCs	Fusion reaction vent Chemline 1 and TAS reactors	Annual limit see Table S4.4		6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A15b	Total VOCs	Fusion reaction vent Hygrotherm reactor, Building 1	Annual limit see Table S4.4	-	6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A16a	Total VOCs	Ground tank 1 vent Building 1	Annual limit see Table S4.4	-	6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002

A16b	Total VOCs	Ground tank 5 vent Building 1	Annual limit see Table S4.4		6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A16c	Total VOCs	Ground tank 4 vent Building 1	Annual limit see Table S4.4		6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A16d	Total VOCs	Ground tank 2 vent Building 1	Annual limit see Table S4.4		6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A16e	Total VOCs	Ground tank 6 vent Building 1	Annual limit see Table S4.4		6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A16f	Total VOCs	Ground tank 3 vent Building 1	Annual limit see Table S4.4		6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A17a	Total VOCs	Ground tank 7 vent, Building 2	Annual limit see Table S4.4	-	6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A17b	Total VOCs	Ground tank 8 vent, Building 2	Annual limit see Table S4.4	-	6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A18	Total VOCs	Emergency dump tank Lynchem	Annual limit see Table S4.4	-	-	-
A19	Total VOCs	Emergency dump tank Hygrotherm, TAS, Chemline 1 and 2	Annual limit see Table S4.4	-	-	-
A20	Total VOCs	Chemline 3 Reactor vent	Annual limit see Table S4.4	-	6 products for site every 6 months	Charcoal adsorption tube as in BS EN 13649:2002
A21	No Parameters Set	Boiler Vent	No limit set	-	-	-
A22	Total VOCs	Emergency dump tank Chemline 3	Annual limit see Table S4.4	-	-	-

Table S4.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
W1. Emission of surface waters to R.Tonge	No parameter set	Uncontaminated rainwater	-	-	-	-

Table S4.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (incl. Unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**

Table S4.4 Annual limits		
Substance	**Medium**	**Limit (including unit)**
Total VOCs as toluene	Air	0.25 kg/tonne of product

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.6.1.	Installation	Every 6 months	01/01/07

Table S5.2: Annual production/treatment

Parameter	Units
Manufacture of resin products	tonnes

Table S5.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWs
Total raw material used	Annually	tonnes
Total VOCs released to atmosphere per tonne product	Annually	VOC kg/t

Table S5.4 Reporting forms

Media/parameter	Reporting format
Air	Form air 1 or other form as agreed in writing by the Agency
Water usage	Form water usage1 or other form as agreed in writing by the Agency
Energy usage	Form energy 1 or other form as agreed in writing by the Agency

Schedule 6 - 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 PPC Regulations.

Part A

Permit Number	**BM0311IN**
Name of operator	**VIL Resins Limited**
Location of Installation	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission 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 installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of VIL Resins Ltd

Schedule 7 - 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 4 to the PPC Regulations.

"authorised officer" means any person authorised by the Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

"emissions to land", includes emissions to groundwater.

"fugitive emission" means an emission to air, water or land from the activities which is not controlled by an emission limit.

"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.

"*land protection guidance*", means Agency guidance "H7 - Guidance on the protection of land under the PPC Regime: application site report and site protection monitoring programme".

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"notify/notified without delay" means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

"PPC Regulations" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"*quarter*" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October

"*site protection and monitoring programme*" means a document which meets the requirements for site protection and monitoring programmes described in the Land Protection Guidance.

"year" means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

(a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

(b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content

END OF PERMIT