Notice of transfer, variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Indaver Solvents Limited

Indaver Solvents,
Brooks Lane,
Middlewich,
Cheshire,
CW10 0JG

Transfer application number

EPR/RP3531LP/T015

Consolidation application number

EPR/BS3859IF/C008

Variation application number

EPR/BS3859IF/V006

Consolidated Permit number

EPR/BS3859IF

Indaver Solvents
Permit number EPR/BS3859IF

Introductory note

This introductory note does not form a part of the permit

The following notice gives notice of the transfer in part of environmental permit EPR/RP3531LP to a new operator (the transferee).

In addition, the notice gives notice of the variation of environmental permits A (EPR/BS3859IF) and in part B (EPR/RP3531LP) referred to in the status logs below and the replacement of those permits with a consolidated environmental permit

The consolidated permit has been further varied through an Environment Agency initiated variation to implement guidance “Chemical waste: appropriate measures for permitted facilities”6.

The schedules specify the changes made to the permit as a result of the partial transfer, consolidation and variation.

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied, schedule 2 shows the changes made to the site boundary and schedule 3 comprises a consolidated permit which reflects the changes being made. All the conditions of the permit have been varied by the applications made by the operator and are subject to the right of appeal.

Changes introduced by the partial transfer and consolidation

Permit B (EPR/RP3531LP) has been partially transferred from BIP Organics Limited to Indaver Solvents Limited. This partial transfer includes the transfer of solvent waste reclamation activities AR1 – Section 5.3 Part A(1)(a)(v), transfer of activity polymerisation to produce polyester resin AR5 - Section 4.1 Part A(1) (a) (ii), directly associated activities including operation of the medium combustion plant to supply steam (AR12), and the operation of furnaces to heat oil (transfer medium) (AR13). These activities from permit B (EPR/RP3531LP) have been consolidated with the activities in permit A (EPR/BS39859IF) in a consolidated permit. The list of wastes in the consolidated permit have been updated, emission points added, and monitoring and reporting has been amended accordingly. The thermal output of the furnaces has been corrected after consultation with the operator. The permit boundary has been amended by the partial transfer and consolidation. The updated site plan is shown in Schedule 7 of the consolidated permit.

The consolidated permit has also been varied to add a cooling water system and to permit the use of pressure swing technology in two of the reactor vessels.

An administrative change has been made to the permit to update the name of the site to Indaver Solvents from the Science Park.

Changes introduced by the Environment Agency initiated variation/statutory review

The Industrial Emissions Directive (IED) came into force on 7 January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) Conclusions as described in the Commission Implementing Decision. Article 21(3) of the IED requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on Best Available Techniques (BAT) Conclusions. The BAT Conclusions for Waste Treatment (the BREF) was published on 17 August 2018 following a European Union wide review of BAT, implementing decision (EU) 2018/1147 of 10 August 2018.

On 18 November 2020, Chemical waste: appropriate measures for permitted facilities was published on gov.uk. The guidance explains the standards that are relevant to regulated facilities with an environmental permit to treat or transfer chemical waste, providing indicative BAT for those sites.

This permit variation has been issued to update some of the conditions following a statutory review of the permits in the chemical waste treatment and transfer sector and to implement the appropriate measures guidance. The opportunity has also been taken to consolidate the original permit and subsequent variations where appropriate.

Brief description of the process

The regulated facilities comprise:

- treatment of hazardous waste;
- temporary storage of hazardous waste;
- treatment of non-hazardous waste.
- temporary storage of non-hazardous waste
- the manufacture of fine chemicals
- the production of polyester resin.

Treatment of waste includes:

- recycling of hazardous and non-hazardous solvents by batch vacuum distillation, distillation, simple evaporation and filtration including by centrifugation.
- recovery of hazardous and non-hazardous solvents by blending or mixing, drying and phase separation.

The site is located off Brooks Lane in Brooks Lane Industrial Estate in the town of Middlewich. The residential areas of the town are located to the west and the north of the site. There are 3 local wildlife sites within 2km of the site; the nearest is located 100m from the southern boundary of the installation. Midland Meres & Mosses RAMSAR is located ~8.5km to the east, in which direction the landscape is composed of mostly agricultural land and a few commercial and industrial premises.

The main operations at the site relate to the recovery of solvents from a range of solvent containing wastes. A maximum of 200 tonnes can be treated for recovery per day. Solvents from hazardous wastes are recovered under a Section 5.3 Part A (1)(a)(v) activity, solvents from non-hazardous wastes are recovered under a waste operation. The facility also produces a range of fine chemicals under a multi-product protocol which comprise several Section 4.1 Part A (1)(a) activities and produces polyester resin under a Section 4.1 Part A (1)(a)(ii) activity.

The waste solvent recovery activities take place in the process building 1 (former Centec site) and the process building 2 (former Organics site) in reactor vessels. Waste solvents arrive by tanker, drums, or IBCs and are stored or decanted (pumped) into storage tanks or into the reactor vessels. The vessels are used to distil the solvents atmospherically, under vacuum or under pressure. Recovered solvents are collected in catch pots and transferred back to IBCs/drums/storage tanks pending transfer off-site. Residual wastes are transferred to storage tanks, drums or IBCs to be sent for onward treatment/disposal. Steam is provided to the process by a boiler (which is an existing MCP rated at 3.86 MWth) fuelled on gas oil or processed boiler fuel – a standby boiler fuelled on gas oil (1.36MWth – existing MCP) is used as backup. Two gas oil fired furnaces are used to heat oil (transfer medium). A dedicated vessel within the process building 2 is used for the production of polyester resin. The production of fine chemicals under the MPP takes place in the process building 1.

Emissions from the facility include emissions to air from the operation of combustion plant, treatment and storage of solvent wastes and the production of chemicals. Air emissions from the solvent treatment process and chemical production processes are abated by the thermal oxidiser, wet scrubber or the atmospheric absorption abatement system depending on process requirements. Wastewater from the production of chemicals and recovery of solvents is tankered off-site. Surface water run-off from waste storage/treatment areas is processed through a weir system and stored in the dedicated pits prior to disposal to foul sewer under trade effluent discharge consent with United Utilities. The wastewater is treated by Middlewich wastewater treatment works prior to disposal to the River Croco. Uncontaminated surface water from the car park area is sent to surface water sewer. Most of the wastes stored and treated on site are flammable.

The site is managed using an environmental management system accredited to ISO 9001 and ISO 14001 (note: the existing management system has been extended to cover the operations that were formally part of the Science Park site).

The schedules specify the changes made to the permit.

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

Status log of permit A (EPR/BS3859IF)		
Description	**Date**	**Comments**
Application EPR/BS3859IF received	21/08/2003	Not duly made
Additional information received	Duly made 09/12/2003	**--**
Additional information received	07/06/2004	Details of potential new product manufacture
Paragraph 4 to Schedule 4 Notice requiring further information	02/09/2004	Multi – Product Protocol, Site Report Data Gaps, Emissions and Effects
Permit EPR/BS3859IF determined	12/10/2004	Varied permit issued.
Environment Agency Variation EPR/BS3859IF/V002 determined	13/01/2014	To implement the changes introduced by IED
Variation application EPR/BS3859IF/V003	Duly made 25/03/2014	**--**
Schedule 5 notice Issued to applicant	09/04/2014	Response Received on the 01/05/2014
Schedule 5 notice Issued to the applicant	13/05/2014	Response Received on the 06/06/2014
Schedule 5 notice Issued to the applicant	23/06/2014	Response Received on the 15/07/2014
Schedule 5 notice Issued to the applicant	18/08/2014	Response Received on the 10/09/2014
Variation EPR/BS3859IF/V003 Determined Billing Reference EP3539VZ	16/09/2014	Varied permit issued.
Variation application EPR/BS3859IF/V004	Duly made 12/05/2015	Admin variation to add waste code 16 08 02*.
Variation EPR/BS3859IF/V004 determined	18/06/2015	Varied permit issued
Variation application EPR/BS3859IF/V005	Duly made 09/02/2018	Normal variation application to: • Install four bulk waste storage tanks

Status log of permit A (EPR/BS3859IF)		
Description	**Date**	**Comments**
		• Extend the site boundary to include flammable material storage in the southern area of the site Incorporate upgrades to site tertiary containment.
Schedule 5 notice No.1 issued to applicant	19/03/2018	Response received 23/04/2018 including operating techniques (waste pre-acceptance and acceptance, waste storage, fugitive emissions to air and water and accident procedures), updated layout and boundary plan, surfacing and containment details.
Schedule 5 notice No.2 issued to applicant	19/06/2018	Response received 27/07/2018 including accident management procedures, review of flammable storage area against relevant HSG guidance, details of waste incompatibility and segregation, confirmation of listed activities, details of containment and surfacing.
Additional information received	12/09/2018	Response to RFI dated 05/08/2018, confirming that blending/mixing listed activity not required on permit.
Permit determined EPR/BS3859IF (PAS Billing ref. QP3139JU)	09/10/2018	Consolidated permit issued to Centec International Limited.
Permit review- Regulation 61 Notice sent to Operator	17/11/2021	Regulation 61 Notice requiring information for statutory review of permit.
Permit review - Regulation 61 Notice response	21/11/2023	Response received from the operator.
Permit Review - Application (variation and consolidation EPR/BS3859IF/V006)	Environment Agency Initiated Variation	Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018 and Chemical waste: appropriate measures for permitted facilities published 18 November 2020.
Additional information received in response to request for Information dated 26/01/24 (EPR/BS3859IF/V006)	08/03/2024	Response to request for information concerning: • Description of site activities • Improvements detailed in Reg61 response • Control and monitoring of emissions to air and compliance with the BAT-AELs Control and monitoring of emissions to water/sewer and compliance with the BAT-AELs
Application EPR/BS3859IF/T007 (full transfer of permit EPR/RP3531LP)	Duly made 03/09/2024	Application to transfer the permit in full from Centec International Limited to Indaver Solvents Limited.
Transfer determined EPR/BS3859IF	27/04/2025	Full transfer of permit from Centec International Limited to Indaver Solvents Limited complete (EPR/BS3859IF/T007). The operator adopted the Reg61 response previously submitted on the 21/11/2023 by Centec International Limited.
Application - Partial Transfer of EPR/RP3531LP (EPR/RP3531LP/T015), variation and consolidation with EPR/BS3859IF	Duly made 03/09/2024	Application made by operator to transfer part of EPR/RP3531LP, vary and consolidate with EPR/BS3859IF.

Status log of permit A (EPR/BS3859IF)		
Description	**Date**	**Comments**
(EPR/BS3859IF/C008).		
Additional information received in response Schedule 5 Notice issued to applicant on 25/11/24 (EPR/BS3859IF/C008)	10/01/2025	Response to Schedule 5 Notice concerning: • Updated activity descriptions • Trade effluent description and drainage plan • Storage capacities and infrastructure (for the consolidated permit) • Waste codes (consolidation) • Updated emission points plan
Additional information received in response to request for information dated 29/11/24 (EPR/BS3859IF/V006)	06/02/2025	Response to request for information concerning: • updated H1 assessment • storage of wastes • review of waste codes • ambient air monitoring • chemical production under the MPP • compliance with BAT • pre-operational conditions.
Additional information received in response to request for information dated 14/03/2025 (EPR/BS3859IF/V006)	08/04/2025	Response to request for information concerning: • use of processed boiler fuel • BAT assessment (CWW) • thermal input of furnaces • storage tanks
Environment Agency Waste Treatment Sector Review Permit reviewed And: Partial transfer determined and consolidation issued. EPR/BS3859IF References: EPR/RP3531LP/T015 EPR/BS3859IF/C008 EPR/BS3859IF/V006	28/04/2025	Varied and consolidated permit issued to the transferee; Indaver Solvents limited.

Status log of permit B (EPR/RP3531LP)		
Description	**Date**	**Comments**
Application BS5223IH	Duly Made 19/04/05	-
Response to request for information	09/11/05	-
Response to request for information	13/03/06	-

Status log of permit B (EPR/RP3531LP)		
Description	**Date**	**Comments**
Response to request for information	20/03/06	-
Response to request for information	03/04/06	-
Permit determined	06/04/06	-
Endorsement to Permit RP3531LP endorsing BS5223IH (transfer from BS5223IH to RP3531LP)	22/09/06	Permit transferred
Application for variation FP3935MU	Duly made 22/9/06	-
Further information supplied	27/9/06	-
Variation FP3935MU determined	8/11/06	Variation notice issued
Application for variation EPR/RP3531LP/V003 (VP3333GQ)	Duly made 11/07/08	-
Variation determined EPR/RP3531LP/V003	15/07/08	Variation notice issued
Application for variation EPR/RP3531LP/V004 (DP3630XJ)	Duly made 21/11/07	-
Variation determined EPR/RP3531LP/V004	10/11/08	Variation notice issued
Application for variation EPR/RP3531LP/V005 (VP3632KG)	Duly made 04/11/09	-
Variation determined EPR/RP3531LP/V005	04/02/10	Variation notice issued
Application for variation EPR/RP3531LP/V006 (DP3231CR)	Duly made 31/07/12	Application to add 15 waste codes
Additional information received	31/07/12	Details of how additional waste codes are to be distributed between tables S3.2 and S3.3.
Variation determined EPR/RP3531LP/V006	06/08/12	Variation notice issued
Environment Agency variation determined EPR/RP3531LP/V007	31/05/13	Environment Agency variation to implement the changes introduced by IED
Application for variation EPR/RP3531LP/V008 (variation and consolidation)	Duly made 23/01/14	Application to vary to extend the waste transfer operation and update waste codes.
Additional information received Schedule 5 response and follow up responses	05/03/14; 21/05/14 & 29/05/14 & 12/06/14 & 25/06/14 & 27/06/14 &	Information received on EWC codes, site layout, storage capacities.

Status log of permit B (EPR/RP3531LP)		
Description	**Date**	**Comments**
	10/07/14.	
Variation determined EPR/RP3531LP/V008 (YP3638EV)	25/07/14	Varied and consolidated permit issued.
Application for variation EPR/RP3531LP/V009	-	Application returned
Application for variation EPR/RP3531LP/T014	Duly made 16/03/16	Application to vary and update the permit to modern conditions.
Variation determined EPR/RP3531LP (Billing ref: HP3836RC)	21/04/16	Varied permit issued.
Environment Agency led variation EPR/RP3531LP/V011	02/12/16	Environment Agency led variation to add three improvement conditions (IC15, 16 and 17) regarding site infrastructure.
Variation determined EPR/RP3531LPV011 (PAS billing reference UP3330YH)	20/06/17	Varied permit issued
Permit review- Regulation 61 Notice sent to Operator	17/11/21	Regulation 61 Notice requiring information for statutory review of permit.
Permit review - Regulation 61 Notice response	01/03/22	Response received from the operator.
Permit Review – Application (variation and consolidation) EPR/RP3531LP/V012	Environment Agency Initiated Variation	Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018 and Chemical waste: appropriate measures for permitted facilities published 18 November 2020. And Healthcare Waste: appropriate measures for permitted facilities published 13 July 2020, Non-hazardous and inert waste: appropriate measures for permitted facilities published 12 July 2021 and Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities published 13 July 2022 and Waste temperature exchange equipment: appropriate measures for permitted facilities published 13 July 2022.
Additional information received in response to request for information 26/01/24 (EPR/RP3531LP/V012)	26/02/2024	Response to request for information concerning activity descriptions, site improvements, control and monitoring of emissions to air and water.
Application EPR/RP3531LP/T014 (full transfer of permit EPR/RP3531LP)	Duly made 03/09/24	Application to transfer the permit in full from BIP Organics to BIP Environmental Ltd.
Transfer determined EPR/RP3531LP	27/04/25	Full transfer of permit from BIP Organics Limited to BIP Environmental Ltd complete (EPR/RP3531LP/T014). The operator adopted the Reg61 response

Status log of permit B (EPR/RP3531LP)		
Description	**Date**	**Comments**
		previously submitted on the 01/03/2022 by BIP Organics Limited.
Application part transfer EPR/RP3531LP/T015 and consolidation with EPR/BS3859IF/C008.	Duly made 03/09/24	Application to transfer part of the permit from BIP Environmental Ltd. and consolidate the permit with EPR/BS3859IF.
Additional information received in response to Schedule 5 Notice dated 22/11/24 (EPR/RP3531LP/T015)	10/01/2025	Response to Schedule 5 Notice related to permitted activities, waste codes, storage tonnages and throughput capacities.
Additional information received in response to request for information dated 25/11/24 (EPR/RP3531LP/V012)	16/01/2025	Response to request for information related to WEEE and battery storage, storage of oxidisers/aerosols/lab smalls and emissions to air.
Additional information received in response to request for information dated 03/04/25 (EPR/RP3531LP/V012)	16/04/2025	Response to request for information related to storage of pressurised gas cylinders, capacity to store oxidisers/aerosols, compliance with WTEE measures and review of waste codes for blending/mixing activities.
Environment Agency Waste Treatment Sector Review Permit reviewed And: Partial transfer determined and consolidation issued. EPR/BS3859IF	28/04/2025	Varied and consolidated permit issued to the transferee; Indaver Solvents Limited.

Notice of transfer, variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulations 18, 20 and 21 of the Environmental Permitting (England and Wales) Regulations 2016 transfers part of EPR/RP3531LP, consolidates with EPR/BS3859IF and varies the consolidated permit.

Permit numbers

EPR/BS3859IF

EPR/RP3531LP

to

Indaver Solvents Limited ("the operator")

whose registered office is

Brooks Lane Industrial Estate,
Brooks Lane,
Middlewich,
Cheshire,
CW10 0JG

company registration number **05827612**

to operate regulated facilities at

Indaver Solvents,
Brooks Lane,
Middlewich,
Cheshire,
CW10 0JG

From BIP Environmental Ltd

to the extent set out in the schedules.

The notice shall take effect from 28/04/2025.

The number of the consolidated permit issued to Indaver Solvents Limited is EPR/BS3859IF.

Name	Date
Hannah Finney	**28/04/2025**

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied as a result of the application made by the operator.

Schedule 2 – changes to site boundary

The site boundary has been amended as follows by this permit transfer, consolidation and variation:

Figure 1: the area highlighted in yellow in the plan above is transferred from EPR/RP3531LP

Figure 2: the amended boundary of the consolidated permit (EPR/BS3859IF) is shown by the land edged in a thick black line in the plan above and in the consolidated permit referenced in Schedule 3.

Schedule 3 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BS3859IF

This is the consolidated permit referred to in the transfer, variation and consolidation notice for applications EPR/RP3531LP/T015, EPR/BS3859IF/C008 and EPR/BS3859IF/V006 authorising,

Indaver Solvents Limited ("the operator"),

whose registered office is

Brooks Lane Industrial Estate,
Brooks Lane,
Middlewich,
Cheshire,
CW10 0JG

company registration number **05827612**

to operate an installation and waste operations at

Indaver Solvents,
Brooks Lane,
Middlewich,
Cheshire,
CW10 0JG

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

Name	Date
Hannah Finney	**28/04/2025**

Authorised on behalf of the Environment Agency

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, closure 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.

1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

1.2.1 For the following activities referenced in schedule 1, table S1.1 AR1 to AR15, the operator shall:

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

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

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

1.3 Efficient use of raw materials

1.3.1 For the following activities referenced in schedule 1, table S1.1 AR1 to AR15 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 four 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 further appropriate measures identified by a review.

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

1.4.1 The operator shall take appropriate measures to ensure that:

(a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

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").

2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in a thick black line on the site plan at schedule 7 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 Environment Agency.

2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency 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 the Environment Agency.

2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.4 Waste shall only be accepted if:

(a) it is of a type and quantity listed in schedule 2 table(s) S2.2, S2.3, S2.4 and S2.5 and

(b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

(a) the nature of the process producing the waste;

(b) the composition of the waste;

(c) the handling requirements of the waste;

(d) the hazardous property associated with the waste, if applicable; and

(e) the waste code of the waste.

2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Hazardous waste storage and treatment

2.4.1 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

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 Environment Agency.

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

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 3 tables S3.1, S3.2 and S3.3.

3.1.2 The limits given in schedule 3 shall not be exceeded.

3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.

3.2.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

(b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.2.3 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.

3.3 Odour

3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.3.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;

(b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;

(b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

(a) point source emissions specified in tables S3.1, S3.2 and S3.3;

(b) process monitoring specified in table S3.4;

(c) ambient air monitoring specified in table S3.5;

3.5.2 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.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 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 to S3.3 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 The operator shall:

(a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;

(b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.7 Fire prevention

3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

3.7.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;

(b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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 Environment 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) off-site environmental effects; and

(ii) matters which affect the condition of the land and groundwater.

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 the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 For the following activities referenced in schedule 1, table S1.1 AR1 to AR15 a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment 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 the permit including an interpretive review of that data;

(b) the annual production/treatment data set out in schedule 4 table S4.2; and

(c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment 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 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 S4.4; and

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

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six 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 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

4.3.1 In the event:

(a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

(i) inform the Environment Agency,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) of a breach of any permit condition the operator must immediately—

(i) inform the Environment Agency, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

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 Where the Environment 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 Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency 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.

In any other case:

(a) the death of any of the named operators (where the operator consists of more than one named individual);

(b) any change in the operator's name(s) or address(es); and

(c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 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) the Environment Agency 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.

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

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 "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
AR1	Section 5.3 Part A (1) (a)(v) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving solvent reclamation and regeneration.	Solvent recovery from hazardous waste containing solvents involving the use of distillation techniques. R2 Solvent reclamation/regeneration	From bulking into process tanks and treatment of solvent-containing wastes (including halogenated solvents) by fractional distillation in vessels under pressure, under vacuum or at atmospheric conditions in the dedicated buildings (Main plant and processed plant buildings in figure 2, schedule 7 and 'Revised emission points plan' dated 25/04/2025) to condensing of vapours in condensers and collection of recovered solvents in catch pots prior to transfer for storage of recovered solvents in bulk storage tanks, drums or IBCs (storage areas/bunds shown in figure 2, schedule 7 and 'Revised emission points plan' dated 25/04/2025) prior to transfer off-site. No more than 200 tonnes per day of hazardous and non-hazardous waste shall be treated in aggregate with AR17. The following wastes shall not be blended or mixed: • wastes which react with one another • wastes which could be recovered with other wastes if this means that the waste must now be sent for disposal or a lower form of recovery • oils where this could negatively affect their regeneration or recycling • waste to deliberately dilute it Treatment shall take place in the dedicated vessels located in the dedicated buildings using local exhaust ventilation and abatement on an impermeable surface with sealed drainage. Treated waste, end of waste solvents and aqueous waste originating from the process shall be stored in the dedicated storage tanks, IBCs or drums on an impermeable surface with sealed drainage prior to transfer off

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
			site. Wastes shall be stored for no longer than 6 months. The total amount of waste stored on site at any one time, including both hazardous and non-hazardous waste, shall not exceed 5000 tonnes. No waste types shall be submitted to the activity other than those hazardous wastes specified in in table S2.2
AR2	Section 4.1 Part A (1)(a)(ii) Producing organic chemicals such as organic compounds containing oxygen (for example alcohols, aldehydes, ketones, carboxylic acids, esters, ethers, peroxides, phenols, epoxy resins)	Polymerisation to produce polyester resin.	From receipt and storage, handling, mixing and heating of raw materials to blending into styrene. Transfer of blended finished product to storage and despatch of finished product. Production of polyester resin shall take place in the dedicated vessel within the process building 2 shown in figure 2, schedule 7. The production of polyester resin shall not exceed 2500 tonnes per annum.
AR3	Section 4.1 Part A (1)(a)(i) Producing organic chemicals such as hydrocarbons (linear or cyclic, saturated or unsaturated, aliphatic or aromatic).	Production of a range of organic compounds as defined in the Multi-Product Protocol.	Receipt of raw materials to dispatch of finished product as specified in the Multi-Product Protocol. The production of organic compounds under the Multi-Product Protocol shall not exceed 250 tonnes per annum. The activity shall take place in the process building 1 shown in figure 2, schedule 7.
AR4	Section 4.1 Part A (1)(a)(ii) Producing organic chemicals such as organic compounds containing oxygen (for example alcohols, aldehydes, ketones, carboxylic acids, esters, ethers, peroxides, phenols, epoxy resins).	Production of a range of organic compounds as defined in the Multi-Product Protocol.	Receipt of raw materials to dispatch of finished product as specified in the Multi-Product Protocol. The production of organic compounds under the Multi-Product Protocol shall not exceed 250 tonnes per annum. The activity shall take place in the process building 1 shown in figure 2, schedule 7.
AR5	Section 4.1 Part A (1)(a)(iii) Producing organic chemicals such as organic compounds containing sulphur (for example sulphides,	Production of a range of organic compounds as defined in the Multi-Product Protocol.	Receipt of raw materials to dispatch of finished product as specified in the Multi-Product Protocol. The production of organic compounds under the Multi-Product Protocol shall not exceed 250 tonnes per annum.

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
	mercaptans, sulphonic acids, sulphonates, sulphates and sulphones and sulphur heterocyclics)		The activity shall take place in the process building 1 shown in figure 2, schedule 7.
AR6	Section 4.1 Part A (1)(a)(iv) Producing organic chemicals such as organic compounds containing nitrogen (for example amines, amides, nitrous-, nitro- or azo-compounds, nitrates, nitriles, nitrogen heterocyclics, cyanates, isocyanates, di-isocyanates and di-isocyanate prepolymers).	Production of a range of organic compounds as defined in the Multi-Product Protocol.	Receipt of raw materials to dispatch of finished product as specified in the Multi-Product Protocol. The production of organic compounds under the Multi-Product Protocol shall not exceed 250 tonnes per annum. The activity shall take place in the process building 1 shown in figure 2, schedule 7.
AR7	Section 4.1 Part A (1)(a)(v) Producing organic chemicals such as organic compounds containing phosphorus (for example substituted phosphines and phosphate esters).	Production of a range of organic compounds as defined in the Multi-Product Protocol.	Receipt of raw materials to dispatch of finished product as specified in the Multi-Product Protocol. The production of organic compounds under the Multi-Product Protocol shall not exceed 250 tonnes per annum. The activity shall take place in the process building 1 shown in figure 2, schedule 7.
AR8	Section 4.1 Part A (1)(a)(vi) Producing organic chemicals such as organic compounds containing halogens (for example halocarbons, halogenated aromatic compounds and acid halides).	Production of a range of organic compounds as defined in the Multi-Product Protocol.	Receipt of raw materials to dispatch of finished product as specified in the Multi-Product Protocol. The production of organic compounds under the Multi-Product Protocol shall not exceed 250 tonnes per annum. The activity shall take place in the process building 1 shown in figure 2, schedule 7.
AR9	Section 4.1 Part A (1)(a)(x) Producing organic chemicals such as dyes and pigments	Production of a range of organic compounds as defined in the Multi-Product Protocol.	Receipt of raw materials to dispatch of finished product as specified in the Multi-Product Protocol. The production of organic compounds under the Multi-Product Protocol shall not exceed 250 tonnes per annum.

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
			The activity shall take place in the process building 1 shown in figure 2, schedule 7.
AR10	Section 5.6 A(1)(a)(i) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes	Temporary storage of hazardous waste R13 Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	From receipt and storage of hazardous waste on site to its treatment or repackaging on site; or its transfer off-site. The total amount of waste stored on site at any one time, including both hazardous and non-hazardous waste, shall not exceed 5000 tonnes. Wastes shall be stored in the dedicated tank bunds A to F, the Centec tank farm (next to storage area 1), or in IBCs and drums in the waste storage areas 1, 3, 4 and 5 shown in figure 2, schedule 7 and 'Revised emission points plan' dated 25/04/2025. All hazardous wastes shall be stored on site for no longer than 6 months. Notwithstanding the limits given above where a shorter storage time period is given in an agreed management plan then that time period shall take precedence. No waste types shall be submitted to this activity other than those hazardous wastes specified in Schedule 2, table S2.3.
Directly Associated Activity			
AR11	Steam and heat supply	Use of a dual fuel burner fired on gas oil or processed boiler fuel (PBF) within steam raising boiler (3.86 MWth) and a stand-by gas oil fired boiler (1.36 MWth), which are existing MCPs, to generate steam used to heat reactor vessels. Use of two gas oil fired furnaces (0.84MWth and 0.44 MWth) to heat oil (transfer medium) used to heat reactor vessels.	From receipt, storage and use of fuel to release of products of combustion to air. Limits to the use of raw materials are specified in Table S2.1.
AR12	Provision of cooling water	Operation of a recirculating cooling water system to cool reactor vessels.	Use of cooling towers and heat exchangers to provide cooling to

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
			reactor vessels and discharge of spent water to foul sewer.
AR13	Raw material handling and storage.	Raw material handling and storage.	From receipt and storage to point of use.
AR14	Surface and process water collection and storage.	Collection and discharge of uncontaminated surface water run-offs from rooftops and areas where waste is not stored. Collection of surface water run-off and blowdown from boilers and cooling towers and discharge to foul sewer. Collection of process effluent from waste solvent reclamation and production of chemicals pending transfer off-site.	Collection and discharge of uncontaminated surface water through emission points W1 and W2. Collection of surface water run-off from other areas and boiler condensate in the pit system and in tanks VT8 in bund A, VT49 and VT50, OT1, OT2 and OT3 to discharge to foul sewer. No more than $60m^3$ shall be discharged in any 24-hour period. No process effluent shall be discharged to foul sewer. Collection of process effluent in dedicated storage tanks VT6 or VT7 in bund E or temporary storage in drums/IBCs in the dedicated waste storage areas (see site plan in Schedule 7) pending transfer off site.
AR15	Abatement system	Thermal oxidiser, wet scrubber and atmospheric absorber serving activities AR1 to AR9.	From the input of air to the abatement system to the emission to air.
Waste operations			
Activity reference	**Description of activities for waste operations**		**Limits of activities**
AR16	Solvent recovery from non-hazardous waste containing solvents involving the use of distillation techniques. R2 Solvent reclamation/regeneration		From bulking into process tanks and treatment of non-hazardous solvent-containing wastes (including halogenated solvents) by fractional distillation in vessels under pressure, under vacuum or at atmospheric conditions in the dedicated buildings (Main plant and processed plant buildings in figure 2, schedule 7 and 'Revised emission points plan' dated 25/04/2025) to condensing of vapours in condensers and collection of recovered solvents in catch pots prior to transfer for storage of recovered solvents in bulk storage tanks, drums or IBCs (storage areas shown in figure 2, schedule 7 and 'Revised emission points plan' dated 25/04/2025) prior to transfer off-site. The following wastes shall not be blended or mixed:

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
			• wastes which react with one another • wastes which could be recovered with other wastes if this means that the waste must now be sent for disposal or a lower form of recovery • oils where this could negatively affect their regeneration or recycling • waste to deliberately dilute it Treatment shall take place in a building using local exhaust ventilation and abatement on an impermeable surface with sealed drainage. No more than 200 tonnes per day of hazardous and non-hazardous waste shall be treated in aggregate with AR1. Treated waste, end of waste solvents and aqueous waste originating from the process shall be stored in the dedicated storage tanks, drums or IBCs prior to transfer off site on an impermeable surface with sealed drainage. Wastes shall be stored for no longer than 6 months. The total amount of waste stored on site at any one time, including both hazardous and non-hazardous waste, shall not exceed 5000 tonnes. No waste types shall be submitted to the activity other than those hazardous wastes specified in in table S2.4.
AR17	Temporary storage of non-hazardous waste R13 Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)		From receipt and storage of hazardous waste on site to its treatment or repackaging on site; or its transfer off-site. The total amount of waste stored on site at any one time, including both hazardous and non-hazardous waste, shall not exceed 5000 tonnes. Wastes shall be stored in the dedicated tanks in bunds A to F, the Centec tank farm (next to storage area 1), or in IBCs and drums in the waste storage areas 1, 3, 4 and 5 shown in figure 2, schedule 7 and 'Revised emission points plan' dated 25/04/2025. All non-hazardous wastes shall be stored on site for no longer than 12 months. Notwithstanding the limits given above where a shorter storage time period is given in an agreed management plan

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity and waste types**
			then that time period shall take precedence. No waste types shall be submitted to this activity other than those hazardous wastes specified in Schedule 2, table S2.5.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application EPR/BS3859IF/A001	The response to questions B2.1 and B2.2 on the application form given in Section 2.1 and 2.2 of the application template, supporting documents RP 1,3,7,8,9,9.2,9.3 and Sections C6 and C8.	27/08/2003
Additional information	Multi-product protocol provided by the applicant	02/09/2004
	Original application technical standards (ref to S5.06) And appendix 5 (S5.06 ref)	
Duly made application	Response to Schedule 5 questions 1, 2 and 3. Applicant submitted Site condition report, a site plan and clarification on listed activity they wanted to add to their permit.	25/03/2014
EPR/BS3859IF/V003	Response to Schedule 5 questions (09/04/2014) 1 – 5, Applicant submitted site layout and drainage plan, bunding, non-technical summary, operating techniques and recovery codes.	01/05/2014
EPR/BS3859IF/V003	Response to schedule 5 questions (13/05/2014) 1-9, Non-technical summary, throughput, operating techniques, waste codes , site drainage	06/06/2014
EPR/BS3859IF/V003	Response to Schedule 5 questions, (23/06/2014) 1-5, storage and handling of raw materials, bunding, waste codes and environment management system.	15/07/2014
EPR/BS3859IF/V003	Response to Schedule 5 questions, 1-3, (18/08/2014) confirmation of total annual throughput and total storage capacity, revised site plan identifying the tanks that have been fitted with back balance vents, flame traps , high level alarms and audible and visual alarms, and blanking taps.	10/09/2014
Application EPR/BS3859IF/V005	Response to Schedule 5 questions 1, 3, 5 & 6 covering operating techniques against SGN 5.06 (waste pre-acceptance and acceptance, waste storage, fugitive emissions to air and water, accident procedures),	23/04/2018

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Response to Schedule 5 notice #1 dated 19/03/2018	updated site layout plan, surfacing and containment details.	
Application EPR/BS3859IF/V005 Response to Schedule 5 notice #2 dated 19/06/2018	Response to Schedule 5 questions 1-8, covering accident management procedures, review of flammable storage area against relevant HSG guidance, details of waste incompatibility, confirmation of listed activities, details of containment and surfacing for flammable storage area and upgraded tertiary containment.	27/07/2018
Application EPR/BS3859IF/V005 Response to RFI dated 05/09/2018	Response to RFI, confirmation that blending/mixing listed activity not required in consolidated permit.	12/09/2018
Chemical waste: appropriate measures for permitted facilities Version published 18 November 2020	All parts of the appropriate measures guidance shall apply other than: • those parts to which an improvement programme requirement applies in Table S1.3 (and only until the date that the improvement has been or must be met, whichever is the earlier)	N/A
Permit Review Additional information (EPR/RP3531LP/V012)	Response to request for information including the following documents: • Site plan showing reactor vessels in process building 2 *'3013-005-03A (A) SLP SITE 1 A2 Including Question 10'*	26/02/2024
Permit review Additional information (EPR/BS3859IF/V006)	Response to request for information including the following documents: • *'General management appropriate measures Centec'* (not including section on Improvements 23/24) – response to questions about compliance with appropriate measures. • *'Flow chart BIPO Process'* flowchart indicating stages in waste pre-acceptance, acceptance, storage and treatment and controls.	08/03/2024
Additional information (EPR/BS3859IF/V008 EPR/RP3531LP/T015)	Response to Schedule 5 Notice including the following documents (which supersede documents listed in applications EPR/BS3859IF/C008 and EPR/RP3531LP/T015): • *'QESH Improvement Actions'* – parts containing justification of queried waste codes to be retained. • *'Updated effluent drainage plan'* - excluding references to carbon filtration system which is a future development. • *'New emission points plan'*: full version of plan in Figure 2 in schedule 7. • *'Request for further information'* - Table 1 and Table 3: Waste tonnages, capacities and tank storage.	10/01/2025

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
	• *'CIL MPP V4'*: original multi-product protocol.	
Additional information (EPR/BS3859IF/V006)	Response to request for information including the following documents: • *'Reg61 response'* - response to questions 2 (relating to waste storage) and 3 (relating to ambient air monitoring). • *'Appendix A – CDOIF Assesssment Sheet E – Risk Frequency'* (environmental risk assessment controls)	06/02/2025
Additional information (EPR/BS3859IF/V006)	Response to request for information including the following documents: • '*Storage of IBCs'* received 13/03/25 • '*Request for further information BAT' received* 28/03/25 – response to question regarding BAT for chemical activities • '*Boiler Fuel Response v2'* received on 07/04/25. Methodology for assessment of processed boiler fuel.	07/04/2025
Additional information (EPR/BS3859IF/V006)	Revised emission points plan '3237-BRO-01 (A) Site Inf Plan A0'	25/04/2025

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The operator shall provide a proposed method statement detailing the proposed techniques for mixing & blending in accordance with SGN S5.06 'Guidance for the recovery and disposal of hazardous and non-hazardous waste', to the Environment Agency for agreement. Mixing or blending shall only take place in accordance with a method statement agreed in writing by the Environment Agency.	Superseded by requirements of Table S1.2
IC2	The operator shall review the pollution prevention measures in place for the storage and treatment of dichloromethane (DCM). A written report shall be submitted to the Environment Agency which should include, but is not limited to: • an assessment of emissions of DCM; together with • proposals for controls on storage and treatment including emissions, demonstrating BAT; and • proposals for monitoring of emissions. Storage and handling of dichloromethane shall continue only in accordance with proposals agreed in writing by the Environment Agency.	Superseded by IC16
IC3	All the brickwork masonry bunds surrounding bulk storage tanks shall be upgraded to meet the minimum requirements for class 2 containment set out in CIRIA report 736: 'Containment systems for the prevention of pollution' to include the following: The capacity of the bunds shall be a minimum of 110% of the capacity of the largest tank within the bund or 25% of the total capacity of all the tanks within the bund, whichever is the greater. When calculating the capacity of the bund the volume occupied by other tanks within the bund shall be deducted.	Superseded by IC18

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	The bunds shall: • be of reinforced concrete construction and designed as a liquid retaining structure; • have water stop movement joints which are both fire resistant and resistant to attack by the materials stored; • be fitted with syphon overflow arrangements where bunds may be required to retain immiscible flammable liquids which are less dense than water; and • be fitted with firewater removal pipe work The bunds shall not have: • pipe work penetrations through the bund floor or walls; • rain water drains in the bund floor; or • any drainage outlets through the bund wall other than syphon overflows. The bunds shall comply with the relevant requirements of HSE publication HSG 176 on the 'Storage of flammable liquids in tanks' including: • tank layout; and • the use of intermediate bund walls in shared bunds to reduce the spread and surface area of any spillages. Tanks containing halogenated liquids shall not share a bund with non-halogenated liquids. A timetable for the progressive completion of this work shall be submitted to the Environment Agency for agreement by 30/09/17. A report detailing the proposed bund upgrade specification and demonstrating how the requirements of CIRIA Report 736 will be met shall be submitted to the Environment Agency for approval at least 4 weeks before commencement of construction work. An 'as built' specification and drawings shall be provided to the Environment Agency upon completion.	
IC4	Provide local secondary containment bunds for all IBCs and other packaged liquid materials stored on yard 1 (the eastern yard serving the distillation area) that meet the minimum requirements for class 2 containment set out in CIRIA report 736: 'Containment systems for the prevention of pollution' to include the following: For steel drums and other metal containers the capacity of the bunds shall be a minimum of 110% of the capacity of the largest container within the bund or 25% of the total capacity of all the containers within the bund, whichever is the greater. For plastic or composite containers (such as IBCs with a plastic bottle) containing flammable liquids the capacity of the bund shall be a minimum of 100% of the total inventory within the bund unless it can be demonstrated to the satisfaction of the Environment Agency by risk	Superseded by IC18

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	assessment that suitable tertiary containment is provided in the event of the rapid release of the contents of plastic containers in the event of a fire. Suitable tertiary containment shall direct and contain any overflowing liquids in a manner which is unlikely to spread fire in the event of burning liquids. Flammable liquids stored in metal containers shall not share a bund with flammable liquids stored in plastic or composite packages. The bunds shall: • be of reinforced concrete construction and designed as a liquid retaining structure; • have water stop movement joints which are both fire resistant and resistant to attack by the materials stored; and • be fitted with firewater removal pipe work. The bunds shall not have: • pipe work penetrations through the bund floor or walls; • rain water drains in the bund floor; • any drainage outlets through the bund wall; or • automatic pumping of rainwater from the bund. The bunds shall comply with the relevant requirements of HSE publication HSG 51 on the 'Storage of flammable liquids in tanks' including: • layout and separation distances; • maximum stack size; • stacking height; and • segregation of incompatible substances. A report detailing the proposed bund upgrade specification and demonstrating how the requirements of CIRIA Report 736 will be met shall be submitted to the Environment Agency for approval at least 4 weeks before commencement of construction work. An 'as built' specification and drawings shall be provided to the Environment Agency upon completion.	
IC5	A rainwater management plan shall be submitted to the Environment Agency for approval. The rainwater management plan shall detail the arrangements for the regular removal of rainwater from bunded areas and shall include: • procedures for inspection testing and removal of rainwater from bunds; • arrangements for pumping and storage of rainwater pending discharge from the site; and • a demonstration that sufficient capacity is provided for rainwater storage in tank(s) or other suitable containers pending discharge, taking account of high rainfall events. Rainwater shall be managed in accordance with the rainwater management plan agreed in writing by the Environment Agency.	Superseded by IC18

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	Rainwater shall not be pumped into any containment bund used for the storage of any other substance. Revised proposals shall be submitted where changes are necessary due to new bunds or changes in bund layout.	
IC6	The Operator shall review the facility's written waste pre-acceptance procedures and formalise these accordingly to ensure they comply with section 2.1.1 of the *Sector Guidance Note IPPC S5.06, Issue 5, May 2013*. The procedures must address, but not be limited to, the following waste pre-acceptance indicative BAT points: • 1-11 & 14 The Operator shall notify the Environment Agency when the procedures have been fully implemented and ensure they are available for inspection.	Superseded by requirements of Table S1.2
IC7	The Operator shall review the facility's written waste acceptance procedures and formalise these accordingly to ensure they comply with sections 2.1.2 of *Sector Guidance Note IPPC S5.06, Issue 5, May 2013*. The procedures must address, but not be limited to, the following waste acceptance indicative BAT points: • 7 (load inspection) • 8, 10-13, 15-21 (sampling, checking, testing of wastes, storage) • 24, 26 (sampling of bulk liquid and drummed wastes) • 34 (waste rejection procedures) • 35-38 (records) • 40-43 (general) The Operator shall notify the Environment Agency when the procedures have been fully implemented and ensure they are available for inspection.	Superseded by requirements of Table S1.2
IC8	The Operator shall review the facility's written waste storage procedures and formalise these accordingly to ensure they comply with section 2.1.3 of *Sector Guidance Note IPPC S5.06, Issue 5, May 2013*. The procedures must address, but not be limited to, the following waste storage indicative BAT points: • 5 (record keeping) • 8-13 (general storage requirements) • 31 (compatibility testing) • 33, 35, 39 (transfer from tanker, drums and other containers in bulk storage). • 40 (bulking up into drums including drum, tank, tanker or small containers transfers into drums) • 58, 59, 61 & 62 (tank and process pipework labelling)	Superseded by requirements of Table S1.2

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	The Operator shall notify the Environment Agency when the procedures have been fully implemented and ensure they are available for inspection.	
IC9	The Operator shall undertake a review of the site surfacing and containment (for areas not served by impervious surfacing) against the requirements of section 2.2.5 (indicative BAT point 3) of *Sector Guidance Note IPPC S5.06, Issue 5, May 2013*, and identify any measures necessary to meet those requirements. A written report summarising the findings shall be submitted to the Environment Agency. A timescale for the implementation of any necessary improvements shall be agreed with the Environment Agency. The Operator shall implement the improvements to the approved timetable.	Superseded by IC18
IC10	The Operator shall undertake an assessment of the secondary and tertiary containment capacity of the new flammable storage area for packaged material (location detailed in *Drawing 2, Report No. 1895022.603/B.0,* submitted 09/02/18). The review shall take account of the guidance in Chapter 4 of *CIRIA C736 - Containment Systems for the Prevention of Pollution - secondary, tertiary and other measures for industrial and commercial premises,* (considering credible scenarios) including consultation with the Fire and Rescue Service. A written report summarising the findings and plans for any necessary improvements shall be submitted to the Environment Agency. A timescale for the implementation of any proposed improvements shall be agreed with the Environment Agency. The Operator shall implement the improvements to the approved timetable.	Superseded by IC18
IC11	The Operator shall undertake an assessment of the upgraded tertiary containment area capacity (location detailed in *Drawing 2, Report No. 1895022.603/B.0,* submitted 09/02/18). The review shall take account of the guidance in Chapter 4 of *CIRIA C736 - Containment Systems for the Prevention of Pollution - secondary, tertiary and other measures for industrial and commercial premises,* (considering credible scenarios) including consultation with the Fire and Rescue Service. A written report summarising the findings and plans for any necessary improvements shall be submitted to the Environment Agency. A timescale for the implementation of any proposed improvements shall be agreed with the Environment Agency. The Operator shall implement the improvements to the approved timetable.	Superseded by IC18
IC12	The Operator shall review the pollution prevention measures protecting the surface water drains located adjacent to the flammable storage area, in order to minimise the risk of surface water pollution posed by operation in proximity of these drains. The review must consider, but not be limited to, the following options: • Installation of a penstock valve • Installation of a suitable interceptor	Superseded by IC18

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	A written report summarising the findings and plans for improvements shall be submitted to the Environment Agency. A timescale for implementation of any necessary improvements shall be agreed with the Environment Agency. The Operator shall implement the improvements to the approved timetable.	
IC13	The Operator shall review the facility's written waste repackaging procedures and formalise these accordingly to ensure they comply with the relevant requirements of sections 2.1.1, 2.1.2 and 2.1.3 of the *Sector Guidance Note IPPC S5.06, Issue 5, May 2013*. The Operator shall notify the Environment Agency when the procedures have been fully implemented and ensure they are available for inspection.	Superseded by requirements of Table S1.2
IC14 – review of wastewater storage	The operator shall submit a written report to the Environment Agency for assessment. The report shall include a review of wastewater stored within the pit system prior to discharge to foul sewer and shall identify the main sources of contamination including from waste storage areas and bunds. The report shall identify any measures required to minimise contamination of the wastewater including, but not limited to, revisions to housekeeping procedures and cleaning of bunds and pits. The operator shall implement any improvements with the written approval of the Environment Agency.	01/11/2025
IC15 – MPP revision.	The operator shall review their Multi-Product Protocol against the requirements of our guidance 'Guidance on the use of a Multi-Product Protocol MPP at Chemical Production Installations' (v5.0 dated May 2019) and update their MPP accordingly. The review shall include, but is not limited to, demonstrating that the following aspects of the guidance are incorporated: • An up-to-date "worst case" environmental assessment in accordance with our guidance on assessing environmental risk: Risk assessments for your environmental permit - GOV.UK, including, but not limited to, the outcome of a quantitative assessment of point source emissions to air (this could be achieved in conjunction with IC16 below). • A justification of the range and scale of the procedures that the protocol covers and the implementation of suitable limits (such as on capacity) and/or controls to ensure that the "worst case" scenario described is not exceeded. • Inclusion of the MPP within a certified environmental management system. A copy of the updated procedure shall be submitted to the Environment Agency for approval.	01/11/2025
IC16 – H1 risk assessment for emissions to air from the site inclusive of waste treatment, use of combustion plant including	The operator shall submit a written report to the Environment Agency for assessment and written approval. The report must include: a) the results and conclusions from an assessment of the environmental impact of the emissions to air from the site including any hazardous pollutant and specifically including, but not limited	By 01/11/2025 or as agreed in writing by the Environment Agency.

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
combustion of processed boiler fuel and chemical production.	to, emissions of total and speciated volatile organic compounds from the listed emission points in Table S3.1. Where applicable, the initial assessment shall be made using the emission limit stated in Table S3.1. The assessment must be carried out using the Environment Agency's 'H1 Environmental Risk Assessment' tool (or equivalent as agreed with the Environment Agency) and/or modelling as required following our guidance: Air emissions risk assessment for your environmental permit - GOV.UK. Where it is concluded that the impact of the emission may be significant or is exceeding an environment standard (e.g. an environmental standard ES) the operator shall: b) Review the emission limits listed in Table S3.1 and determine whether there is a requirement for emissions limits to be lower, or additional limits to be added, to prevent exceedance of environmental standards. c) Propose revised emission limits Where the proposed limits or limits listed in Table S3.1 could be exceeded, the report must also include: d) Proposals for measures to mitigate the emission to meet the relevant emission limit such as (additional) abatement and timescales for the implementation of the measures. The proposals shall be implemented within 6 months of approval of the report or as agreed in writing by the Environment Agency	
IC17a – Emissions control procedures for cold storage tanks	The operator shall submit a written plan to the Environment Agency for approval for the installation, maintenance and operation of an abatement system for the reduction of VOCs from the waste solvent storage tanks on site as required by section 4 and 6 of Chemical waste: appropriate measures for permitted facilities (e.g. 4.43. *'You should vent bulk storage tanks and silos through suitable abatement', 6.1.6 'Your procedures must make sure you correctly install, operate, monitor and maintain abatement equipment…')*. The plan shall detail: • the design of the abatement system; • the monitoring measures in place for; - optimising and maintaining the operation; - optimising performance of the [carbon filters/bag filters/other abatement for example wet scrubbers]; - identifying optimal regeneration or replacement; • The timescale for implementation. The plan shall be implemented in accordance with the Environment Agency's written approval.	01/11/2025
IC17b abatement system	The agreed abatement system(s) approved under IC17a shall be installed and operated in accordance with the Environment Agency's written approval.	01/11/2025
IC18 – Survey of containment measures in	The Operator shall undertake an independent survey carried out by a competent person (qualified civil engineer, structural engineer, or integrity assessor) of the primary, secondary and tertiary containment	01/05/2026 or as agreed in writing by

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
accordance with CIRIA 736	at the site and review measures against the relevant standards listed in Sections 4 and 6.5 of Chemical Waste: appropriate measures for permitted facilities, Nov 2020, including relevant CIRIA, HSE and EEMUA guidance. Specifically, this shall include a review of all of the bunded areas used to store and treat waste on site including, but not limited to, areas used to store IBCs, bulk storage tanks and wastewater. The operator shall submit a written report to the Environment Agency for approval which outlines the results of the survey in line with the requirements in Chemical Waste: appropriate measures for permitted facilities, Nov 2020 and provide details of: • current containment measures; • physical condition of the storage vessels; • any deficiencies identified in comparison to relevant standards; • improvements proposed; • time scales for implementation of improvements; and • a preventative maintenance and inspection regime. The operator shall implement the improvements to the approved timescales.	the Environment Agency
IC19 – LDAR programme	The operator shall submit a written 'leak detection and repair programme', and associated procedures and shall obtain the Environment Agency's written approval to it. The plan will identify, measure and reduce fugitive emissions of volatile organic compounds and other relevant substances to air, appropriate to their operations and in accordance with European standard EN15446 or an equivalent standard. The programme shall be implemented in accordance with the Environment Agency's written approval.	01/08/2025
IC20 – labelling of containers	The operator shall review and update their written management system to ensure that they meet the requirements of the Environment Agency's guidance Chemical waste: appropriate measures for permitted facilities referred to in Table S1.2. Specifically, the operator must demonstrate that the following appropriate measure(s) of the guidance will be met: # 2.1 relating to the management system. # 4.16 '*All stored containers must keep the labelling they had at acceptance. If the label is damaged or no longer legible you should replace the label with that same information'* # 4.17 *'You must handle and store containers so that the label is easily visible and continues to be legible.'* The operator shall review their management system (and/or staff training procedures) to ensure that each IBC or container containing waste, product or chemicals shall be labelled clearly indicating the substance contained, any hazardous properties of the substance and any other required information such as concentration and relevant dates, and any outdated information shall be removed. A copy of the updated procedure shall be submitted to the Environment Agency for approval.	01/07/2025

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC21 – storage of waste for longer than 6 months	The operator shall review and update their waste storage, segregation and handling procedures to ensure that they meet the requirements of the Environment Agency's guidance Chemical waste: appropriate measures for permitted facilities referred to in Table S1.2. Specifically, the operator must demonstrate that the following appropriate measure(s) of the guidance will be met: *4.15. You must not accumulate waste. You must treat wastes, or remove them from the site, as soon as possible. Generally you should do this within one month of receipt but all wastes must be removed within 6 months of receipt. This applies even when the waste might be used as a reactant. Where a shorter time period is given in a permit condition you must comply with the permit for that waste. Where a waste is stored for longer than allowed you must inform the Environment Agency.* The operator must demonstrate that any waste stored for longer than 6 months meet end of waste criteria (e.g. by submitting an end of waste request form: Get an opinion from the definition of waste service - GOV.UK). The operator shall describe in their updated procedure how any recovered wastes are used in their process and any controls in place to prevent additional environmental risk from their use (e.g. prevention of accidents from the mixing of incompatible substances). A copy of the updated procedure(s) shall be submitted to the Environment Agency for approval.	01/11/2025 or as agreed in writing by the Environment Agency
IC22 – update and review management of chemical production activities	The operator shall submit an updated procedure to the Environment Agency for assessment and approval detailing the management practices in place for chemical production activities (including the manufacture of chemical fines and the production of polyester resin) and demonstrating compliance with the BAT Conclusions for common waste water and waste gas treatment/management systems in the chemical sector. The procedure must contain: • details of the chemical production processes (where not covered elsewhere e.g. in the MPP) as required by BAT 2 • details of the management of the chemical production processes as required by BAT 1 and any procedures specific to these processes such as, but not limited to, accident management, ongoing training, and an ongoing commitment to review and comply with BAT for the sector. With the Environment Agency's written approval, the operator shall incorporate the procedure into their environmental management system.	01/11/2025
IC23 – processed boiler fuel	The operator shall submit a written report to the Environment Agency for approval that proposes a monitoring programme to assess metal content of the processed boiler fuel. The monitoring programme will be	01/11/2025

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	designed to demonstrate the suitability of quarterly instead of batch monitoring for processed boiler fuels as proposed under operating technique '*boiler fuel v2'* dated 07/04/2025 and listed in Table S1.2. The report shall detail the monitoring methods, equipment and frequency to be used (a frequency of less than once per batch for the monitoring programme must be justified in the report). The monitoring programme shall be carried out as approved by the Environment Agency.	

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
Gas oil or an equivalent substitute to be agreed in writing with the Environment Agency	Less than 0.1% w/w sulphur content.
Processed Boiler Fuel (PBF)	Carbon residue <0.24% Ash <0.01% Sulphur <0.08% Halogens <4ppm Mercury <4ppm Lead <4ppm Nickel <4ppm Chromium <4ppm Copper <4ppm Zinc <4ppm Arsenic <4ppm Cadmium <4ppm Thallium <4ppm Antimony <4ppm Cobalt <4ppm Manganese <4ppm Vanadium <4ppm

Table S2.2 Permitted waste types and quantities for recovery of solvents from hazardous waste (AR1).	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
01	**WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS**
01 05	**drilling muds and other drilling wastes**
01 05 05*	oil-containing drilling muds and wastes
01 05 06*	drilling muds and other drilling wastes containing hazardous substances
03	**WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD**
03 02	**wastes from wood preservation**
03 02 01*	non-halogenated organic wood preservatives
03 02 02*	organochlorinated wood preservatives
03 02 03*	organometallic wood preservatives
03 02 04*	inorganic wood preservatives
03 02 05*	other wood preservatives containing hazardous substances
04	**WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES**
04 02	**wastes from the textile industry**
04 02 14*	wastes from finishing containing organic solvents
04 02 16*	dyestuffs and pigments containing hazardous substances

Table S2.2 Permitted waste types and quantities for recovery of solvents from hazardous waste (AR1).	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
05	**WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL**
05 01	**wastes from petroleum refining**
05 01 02*	desalter sludges
05 01 03*	tank bottom sludges
05 01 05*	oil spills
05 01 06*	oily sludges from maintenance operations of the plant or equipment
05 01 07*	acid tars
05 01 08*	other tars
05 01 09*	sludges from on-site effluent treatment containing hazardous substances
05 01 11*	wastes from cleaning of fuels with bases
05 01 12*	oil containing acids
05 06	**wastes from the pyrolytic treatment of coal**
05 06 01*	acid tars
05 06 03*	other tars
07	**WASTES FROM ORGANIC CHEMICAL PROCESSES**
07 01	**wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals**
07 01 01*	aqueous washing liquids and mother liquors
07 01 03*	organic halogenated solvents, washing liquids and mother liquors
07 01 04*	other organic solvents, washing liquids and mother liquors
07 01 07*	halogenated still bottoms and reaction residues
07 01 08*	other still bottoms and reaction residues
07 01 11*	sludges from on-site effluent treatment containing hazardous substances
07 02	**wastes from the MFSU of plastics, synthetic rubber and man-made fibres**
07 02 01*	aqueous washing liquids and mother liquors
07 02 03*	organic halogenated solvents, washing liquids and mother liquors
07 02 04*	other organic solvents, washing liquids and mother liquors
07 02 07*	halogenated still bottoms and reaction residues
07 02 08*	other still bottoms and reaction residues
07 02 16*	wastes containing hazardous silicones
07 03	**wastes from the MFSU of organic dyes and pigments (except 06 11)**
07 03 01*	aqueous washing liquids and mother liquors
07 03 03*	organic halogenated solvents, washing liquids and mother liquors
07 03 04*	other organic solvents, washing liquids and mother liquors
07 03 07*	halogenated still bottoms and reaction residues

Table S2.2 Permitted waste types and quantities for recovery of solvents from hazardous waste (AR1).	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
07 03 08*	other still bottoms and reaction residues
07 04	**wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides**
07 04 01*	aqueous washing liquids and mother liquors
07 04 03*	organic halogenated solvents, washing liquids and mother liquors
07 04 04*	other organic solvents, washing liquids and mother liquors
07 04 07*	halogenated still bottoms and reaction residues
07 04 08*	other still bottoms and reaction residues
07 05	**wastes from the MFSU of pharmaceuticals**
07 05 01*	aqueous washing liquids and mother liquors
07 05 03*	organic halogenated solvents, washing liquids and mother liquors
07 05 04*	other organic solvents, washing liquids and mother liquors
07 05 07*	halogenated still bottoms and reaction residues
07 05 08*	other still bottoms and reaction residues
07 06	**wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics**
07 06 01*	aqueous washing liquids and mother liquors
07 06 03*	organic halogenated solvents, washing liquids and mother liquors
07 06 04*	other organic solvents, washing liquids and mother liquors
07 06 07*	halogenated still bottoms and reaction residues
07 06 08*	other still bottoms and reaction residues
07 07	**wastes from the MFSU of fine chemicals and chemical products not otherwise specified**
07 07 01*	aqueous washing liquids and mother liquors
07 07 03*	organic halogenated solvents, washing liquids and mother liquors
07 07 04*	other organic solvents, washing liquids and mother liquors
07 07 07*	halogenated still bottoms and reaction residues
07 07 08*	other still bottoms and reaction residues
08	**WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS**
08 01	**wastes from MFSU and removal of paint and varnish**
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
08 01 13*	sludges from paint or varnish containing organic solvents or other hazardous substances
08 01 15*	aqueous sludges containing paint or varnish containing organic solvents or other hazardous substances
08 01 17*	wastes from paint or varnish removal containing organic solvents or other hazardous substances

Table S2.2 Permitted waste types and quantities for recovery of solvents from hazardous waste (AR1).	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
08 01 19*	aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
08 01 21*	waste paint or varnish remover
08 03	**wastes from MFSU of printing inks**
08 03 12*	waste ink containing hazardous substances
08 03 14*	ink sludges containing hazardous substances
08 03 16*	waste etching solutions
08 03 17*	waste printing toner containing hazardous substances
08 03 19*	disperse oil
08 04	**wastes from MFSU of adhesives and sealants (including waterproofing products)**
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
08 04 11*	adhesive and sealant sludges containing organic solvents or other hazardous substances
08 04 15*	aqueous liquid waste containing adhesives or sealants containing organic solvents or other hazardous substances
08 04 17*	rosin oil
09	**WASTES FROM THE PHOTOGRAPHIC INDUSTRY**
09 01	**wastes from the photographic industry**
09 01 03*	solvent-based developer solutions
09 01 06*	wastes containing silver from on-site treatment of photographic wastes
09 01 13*	aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09 01 06
10	**WASTES FROM THERMAL PROCESSES**
10 01	**wastes from power stations and other combustion plants (except 19)**
10 01 09*	sulphuric acid
10 02	**wastes from the iron and steel industry**
10 02 11*	wastes from cooling-water treatment containing oil
10 03	**wastes from aluminium thermal metallurgy**
10 03 27*	wastes from cooling-water treatment containing oil
10 04	**wastes from lead thermal metallurgy**
10 04 09*	wastes from cooling-water treatment containing oil
10 05	**wastes from zinc thermal metallurgy**
10 05 08*	wastes from cooling-water treatment containing oil
10 06	**wastes from copper thermal metallurgy**
10 06 09*	wastes from cooling-water treatment containing oil
10 07	**wastes from silver, gold and platinum thermal metallurgy**

Table S2.2 Permitted waste types and quantities for recovery of solvents from hazardous waste (AR1).	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
10 07 07*	wastes from cooling-water treatment containing oil
10 08	**wastes from other non-ferrous thermal metallurgy**
10 08 19*	wastes from cooling-water treatment containing oil
11	**WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS, NON-FERROUS HYDRO-METALLURGY**
11 01	**wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)**
11 01 05*	pickling acids
11 01 06*	acids not otherwise specified
11 01 07*	pickling bases
11 01 08*	phosphatising sludges
11 01 09*	sludges and filter cakes containing hazardous substances
11 01 11*	aqueous rinsing liquids containing hazardous substances
11 01 13*	degreasing wastes containing hazardous substances
12	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01	**wastes from shaping and physical and mechanical surface treatment of metals and plastics**
12 01 06*	mineral-based machining oils containing halogens (except emulsions and solutions)
12 01 07*	mineral-based machining oils free of halogens (except emulsions and solutions)
12 01 08*	machining emulsions and solutions containing halogens
12 01 09*	machining emulsions and solutions free of halogens
12 01 12*	spent waxes and fats
12 01 19*	readily biodegradable machining oil
13	**OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)**
13 01	**waste hydraulic oils**
13 01 04*	chlorinated emulsions
13 01 05*	non-chlorinated emulsions
13 01 09*	mineral-based chlorinated hydraulic oils
13 01 10*	mineral based non-chlorinated hydraulic oils
13 01 11*	synthetic hydraulic oils
13 01 12*	readily biodegradable hydraulic oils
13 01 13*	other hydraulic oils
13 02	**waste engine, gear and lubricating oils**
13 02 04*	mineral-based chlorinated engine, gear and lubricating oils
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

Table S2.2 Permitted waste types and quantities for recovery of solvents from hazardous waste (AR1).	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
13 02 06*	synthetic engine, gear and lubricating oils
13 02 07*	readily biodegradable engine, gear and lubricating oils
13 02 08*	other engine, gear and lubricating oils
13 03	**waste insulating and heat transmission oils**
13 03 06*	mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils
13 03 08*	synthetic insulating and heat transmission oils
13 03 09*	readily biodegradable insulating and heat transmission oils
13 03 10*	other insulating and heat transmission oils
13 04	**bilge oils**
13 04 01*	bilge oils from inland navigation
13 04 02*	bilge oils from jetty sewers
13 04 03*	bilge oils from other navigation
13 05	**oil/water separator contents**
13 05 06*	oil from oil/water separators
13 05 07*	oily water from oil/water separators
13 07	**wastes of liquid fuels**
13 07 01*	fuel oil and diesel
13 07 02*	petrol
13 07 03*	other fuels (including mixtures)
13 08	**oil wastes not otherwise specified**
13 08 01*	desalter sludges or emulsions
13 08 02*	other emulsions
14	**WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08)**
14 06	**waste organic solvents, refrigerants and foam/aerosol propellants**
14 06 02*	other halogenated solvents and solvent mixtures
14 06 03*	other solvents and solvent mixtures
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 01	**end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)**
16 01 13*	brake fluids
16 03	**off-specification batches and unused products**
16 03 03*	inorganic wastes containing hazardous substances
16 03 05*	organic wastes containing hazardous substances

Table S2.2 Permitted waste types and quantities for recovery of solvents from hazardous waste (AR1).	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
16 05	**gases in pressure containers and discarded chemicals**
16 05 06*	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals
16 05 07*	discarded inorganic chemicals consisting of or containing hazardous substances
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
16 07	**wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)**
16 07 08*	wastes containing oil
16 07 09*	wastes containing other hazardous substances
16 08	**spent catalysts**
16 08 02*	spent catalysts containing hazardous transition metals or hazardous transition metal compounds
16 08 05*	spent catalysts containing phosphoric acid
16 08 06*	spent liquids used as catalysts
16 08 07*	spent catalysts contaminated with hazardous substances
16 10	**aqueous liquid wastes destined for off-site treatment**
16 10 01*	aqueous liquid wastes containing hazardous substances
16 10 03*	aqueous concentrates containing hazardous substances
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 03	**bituminous mixtures, coal tar and tarred products**
17 03 01*	bituminous mixtures containing coal tar
17 03 03*	coal tar and tarred products
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 01	**wastes from incineration or pyrolysis of waste**
19 01 06*	aqueous liquid wastes from gas treatment and other aqueous liquid wastes
19 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 08*	liquid combustible wastes containing hazardous substances
19 02 11*	other wastes containing hazardous substances
19 11	**wastes from oil regeneration**
19 11 02*	acid tars
19 11 03*	aqueous liquid wastes
19 11 04*	wastes from cleaning of fuel with bases
19 11 07*	wastes from flue-gas cleaning

Table S2.2 Permitted waste types and quantities for recovery of solvents from hazardous waste (AR1).	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**separately collected fractions (except 15 01)**
20 01 13*	solvents
20 01 14*	acids
20 01 15*	alkalines
20 01 17*	photochemicals
20 01 19*	pesticides
20 01 26*	oil and fat other than those mentioned in 20 01 25
20 01 27*	paint, inks, adhesives and resins containing hazardous substances

Table S2.3 Permitted waste types and quantities for temporary storage of hazardous waste (AR10)	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
01	**WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS**
01 05	**drilling muds and other drilling wastes**
01 05 05*	oil-containing drilling muds and wastes
01 05 06*	drilling muds and other drilling wastes containing hazardous substances
03	**WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD**
03 02	**wastes from wood preservation**
03 02 01*	non-halogenated organic wood preservatives
03 02 02*	organochlorinated wood preservatives
03 02 03*	organometallic wood preservatives
03 02 04*	inorganic wood preservatives
03 02 05*	other wood preservatives containing hazardous substances
04	**WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES**
04 02	**wastes from the textile industry**
04 02 14*	wastes from finishing containing organic solvents
04 02 16*	dyestuffs and pigments containing hazardous substances
05	**WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL**
05 01	**wastes from petroleum refining**
05 01 02*	desalter sludges

Table S2.3 Permitted waste types and quantities for temporary storage of hazardous waste (AR10)	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
05 01 03*	tank bottom sludges
05 01 05*	oil spills
05 01 06*	oily sludges from maintenance operations of the plant or equipment
05 01 07*	acid tars
05 01 08*	other tars
05 01 09*	sludges from on-site effluent treatment containing hazardous substances
05 01 11*	wastes from cleaning of fuels with bases
05 01 12*	oil containing acids
05 06	**wastes from the pyrolytic treatment of coal**
05 06 01*	acid tars
05 06 03*	other tars
07	**WASTES FROM ORGANIC CHEMICAL PROCESSES**
07 01	**wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals**
07 01 01*	aqueous washing liquids and mother liquors
07 01 03*	organic halogenated solvents, washing liquids and mother liquors
07 01 04*	other organic solvents, washing liquids and mother liquors
07 01 07*	halogenated still bottoms and reaction residues
07 01 08*	other still bottoms and reaction residues
07 01 11*	sludges from on-site effluent treatment containing hazardous substances
07 02	**wastes from the MFSU of plastics, synthetic rubber and man-made fibres**
07 02 01*	aqueous washing liquids and mother liquors
07 02 03*	organic halogenated solvents, washing liquids and mother liquors
07 02 04*	other organic solvents, washing liquids and mother liquors
07 02 07*	halogenated still bottoms and reaction residues
07 02 08*	other still bottoms and reaction residues
07 02 16*	wastes containing hazardous silicones
07 03	**wastes from the MFSU of organic dyes and pigments (except 06 11)**
07 03 01*	aqueous washing liquids and mother liquors
07 03 03*	organic halogenated solvents, washing liquids and mother liquors
07 03 04*	other organic solvents, washing liquids and mother liquors
07 03 07*	halogenated still bottoms and reaction residues
07 03 08*	other still bottoms and reaction residues
07 04	**wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides**
07 04 01*	aqueous washing liquids and mother liquors
07 04 03*	organic halogenated solvents, washing liquids and mother liquors

Table S2.3 Permitted waste types and quantities for temporary storage of hazardous waste (AR10)	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
07 04 04*	other organic solvents, washing liquids and mother liquors
07 04 07*	halogenated still bottoms and reaction residues
07 04 08*	other still bottoms and reaction residues
07 05	**wastes from the MFSU of pharmaceuticals**
07 05 01*	aqueous washing liquids and mother liquors
07 05 03*	organic halogenated solvents, washing liquids and mother liquors
07 05 04*	other organic solvents, washing liquids and mother liquors
07 05 07*	halogenated still bottoms and reaction residues
07 05 08*	other still bottoms and reaction residues
07 06	**wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics**
07 06 01*	aqueous washing liquids and mother liquors
07 06 03*	organic halogenated solvents, washing liquids and mother liquors
07 06 04*	other organic solvents, washing liquids and mother liquors
07 06 07*	halogenated still bottoms and reaction residues
07 06 08*	other still bottoms and reaction residues
07 07	**wastes from the MFSU of fine chemicals and chemical products not otherwise specified**
07 07 01*	aqueous washing liquids and mother liquors
07 07 03*	organic halogenated solvents, washing liquids and mother liquors
07 07 04*	other organic solvents, washing liquids and mother liquors
07 07 07*	halogenated still bottoms and reaction residues
07 07 08*	other still bottoms and reaction residues
08	**WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS**
08 01	**wastes from MFSU and removal of paint and varnish**
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
08 01 13*	sludges from paint or varnish containing organic solvents or other hazardous substances
08 01 15*	aqueous sludges containing paint or varnish containing organic solvents or other hazardous substances
08 01 17*	wastes from paint or varnish removal containing organic solvents or other hazardous substances
08 01 19*	aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
08 01 21*	waste paint or varnish remover
08 03	**wastes from MFSU of printing inks**
08 03 12*	waste ink containing hazardous substances

Table S2.3 Permitted waste types and quantities for temporary storage of hazardous waste (AR10)	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
08 03 14*	ink sludges containing hazardous substances
08 03 16*	waste etching solutions
08 03 17*	waste printing toner containing hazardous substances
08 03 19*	disperse oil
08 04	**wastes from MFSU of adhesives and sealants (including waterproofing products)**
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
08 04 11*	adhesive and sealant sludges containing organic solvents or other hazardous substances
08 04 15*	aqueous liquid waste containing adhesives or sealants containing organic solvents or other hazardous substances
08 04 17*	rosin oil
09	**WASTES FROM THE PHOTOGRAPHIC INDUSTRY**
09 01	**wastes from the photographic industry**
09 01 03*	solvent-based developer solutions
09 01 06*	wastes containing silver from on-site treatment of photographic wastes
09 01 13*	aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09 01 06
10	**WASTES FROM THERMAL PROCESSES**
10 01	**wastes from power stations and other combustion plants (except 19)**
10 01 09*	sulphuric acid
10 02	**wastes from the iron and steel industry**
10 02 11*	wastes from cooling-water treatment containing oil
10 03	**wastes from aluminium thermal metallurgy**
10 03 27*	wastes from cooling-water treatment containing oil
10 04	**wastes from lead thermal metallurgy**
10 04 09*	wastes from cooling-water treatment containing oil
10 05	**wastes from zinc thermal metallurgy**
10 05 08*	wastes from cooling-water treatment containing oil
10 06	**wastes from copper thermal metallurgy**
10 06 09*	wastes from cooling-water treatment containing oil
10 07	**wastes from silver, gold and platinum thermal metallurgy**
10 07 07*	wastes from cooling-water treatment containing oil
10 08	**wastes from other non-ferrous thermal metallurgy**
10 08 19*	wastes from cooling-water treatment containing oil
11	**WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS, NON-FERROUS HYDRO-METALLURGY**

Table S2.3 Permitted waste types and quantities for temporary storage of hazardous waste (AR10)	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
11 01	**wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)**
11 01 05*	pickling acids
11 01 06*	acids not otherwise specified
11 01 07*	pickling bases
11 01 08*	phosphatising sludges
11 01 09*	sludges and filter cakes containing hazardous substances
11 01 11*	aqueous rinsing liquids containing hazardous substances
11 01 13*	degreasing wastes containing hazardous substances
12	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01	**wastes from shaping and physical and mechanical surface treatment of metals and plastics**
12 01 06*	mineral-based machining oils containing halogens (except emulsions and solutions)
12 01 07*	mineral-based machining oils free of halogens (except emulsions and solutions)
12 01 08*	machining emulsions and solutions containing halogens
12 01 09*	machining emulsions and solutions free of halogens
12 01 12*	spent waxes and fats
12 01 19*	readily biodegradable machining oil
13	**OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)**
13 01	**waste hydraulic oils**
13 01 04*	chlorinated emulsions
13 01 05*	non-chlorinated emulsions
13 01 09*	mineral-based chlorinated hydraulic oils
13 01 10*	mineral based non-chlorinated hydraulic oils
13 01 11*	synthetic hydraulic oils
13 01 12*	readily biodegradable hydraulic oils
13 01 13*	other hydraulic oils
13 02	**waste engine, gear and lubricating oils**
13 02 04*	mineral-based chlorinated engine, gear and lubricating oils
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils
13 02 06*	synthetic engine, gear and lubricating oils
13 02 07*	readily biodegradable engine, gear and lubricating oils
13 02 08*	other engine, gear and lubricating oils
13 03	**waste insulating and heat transmission oils**

Table S2.3 Permitted waste types and quantities for temporary storage of hazardous waste (AR10)	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
13 03 06*	mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils
13 03 08*	synthetic insulating and heat transmission oils
13 03 09*	readily biodegradable insulating and heat transmission oils
13 03 10*	other insulating and heat transmission oils
13 04	**bilge oils**
13 04 01*	bilge oils from inland navigation
13 04 02*	bilge oils from jetty sewers
13 04 03*	bilge oils from other navigation
13 05	**oil/water separator contents**
13 05 06*	oil from oil/water separators
13 05 07*	oily water from oil/water separators
13 07	**wastes of liquid fuels**
13 07 01*	fuel oil and diesel
13 07 02*	petrol
13 07 03*	other fuels (including mixtures)
13 08	**oil wastes not otherwise specified**
13 08 01*	desalter sludges or emulsions
13 08 02*	other emulsions
14	**WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08)**
14 06	**waste organic solvents, refrigerants and foam/aerosol propellants**
14 06 02*	other halogenated solvents and solvent mixtures
14 06 03*	other solvents and solvent mixtures
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 01	**end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)**
16 01 13*	brake fluids
16 03	**off-specification batches and unused products**
16 03 03*	inorganic wastes containing hazardous substances
16 03 05*	organic wastes containing hazardous substances
16 05	**gases in pressure containers and discarded chemicals**
16 05 06*	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals
16 05 07*	discarded inorganic chemicals consisting of or containing hazardous substances
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances

Table S2.3 Permitted waste types and quantities for temporary storage of hazardous waste (AR10)	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
16 07	**wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)**
16 07 08*	wastes containing oil
16 07 09*	wastes containing other hazardous substances
16 08	**spent catalysts**
16 08 02*	spent catalysts containing hazardous transition metals or hazardous transition metal compounds
16 08 05*	spent catalysts containing phosphoric acid
16 08 06*	spent liquids used as catalysts
16 08 07*	spent catalysts contaminated with hazardous substances
16 10	**aqueous liquid wastes destined for off-site treatment**
16 10 01*	aqueous liquid wastes containing hazardous substances
16 10 03*	aqueous concentrates containing hazardous substances
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 03	**bituminous mixtures, coal tar and tarred products**
17 03 01*	bituminous mixtures containing coal tar
17 03 03*	coal tar and tarred products
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 01	**wastes from incineration or pyrolysis of waste**
19 01 06*	aqueous liquid wastes from gas treatment and other aqueous liquid wastes
19 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 08*	liquid combustible wastes containing hazardous substances
19 02 11*	other wastes containing hazardous substances
19 11	**wastes from oil regeneration**
19 11 02*	acid tars
19 11 03*	aqueous liquid wastes
19 11 04*	wastes from cleaning of fuel with bases
19 11 07*	wastes from flue-gas cleaning
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**separately collected fractions (except 15 01)**
20 01 13*	solvents
20 01 14*	acids
20 01 15*	alkalines

Table S2.3 Permitted waste types and quantities for temporary storage of hazardous waste (AR10)	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
Waste code	**Description**
20 01 17*	photochemicals
20 01 19*	pesticides
20 01 26*	oil and fat other than those mentioned in 20 01 25
20 01 27*	paint, inks, adhesives and resins containing hazardous substances

Table S2.4 Permitted waste types and quantities for recovery of solvents from non-hazardous waste (AR16)	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
02 03	**wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing, conserve production, yeast and yeast extract production, molasses preparation and fermentation**
02 03 02	wastes from preserving agents
02 03 03	wastes from solvent extraction
02 07	**wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)**
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 03	wastes from chemical treatment
03	**WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD**
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 02	green liquor sludge (from recovery of cooking liquor)
03 03 05	de-inking sludges from paper recycling
04	**WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES**
04 02	**wastes from the textile industry**
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16
05	**WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL**
05 01	**wastes from petroleum refining**
05 01 16	sulphur-containing wastes from petroleum desulphurisation
05 01 17	bitumen
07	**WASTES FROM ORGANIC CHEMICAL PROCESSES**
07 01	**wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals**
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11

Table S2.4 Permitted waste types and quantities for recovery of solvents from non-hazardous waste (AR16)	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
08	**WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS**
08 01	**wastes from MFSU and removal of paint and varnish**
08 01 12	waste paint and varnish other than those mentioned in 08 01 11
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13
08 01 16	aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 01 20	aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
08 03	**wastes from MFSU of printing inks**
08 03 07	aqueous sludges containing ink
08 03 08	aqueous liquid waste containing ink
08 03 13	waste ink other than those mentioned in 08 03 12
08 03 15	ink sludges other than those mentioned in 08 03 14
08 03 18	waste printing toner other than those mentioned in 08 03 17
10	**WASTES FROM THERMAL PROCESSES**
10 01	**wastes from power stations and other combustion plants (except 19)**
10 01 25	wastes from fuel storage and preparation of coal-fired power plants
11	**WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS, NON-FERROUS HYDRO-METALLURGY**
11 01	**wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)**
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11
11 01 14	degreasing wastes other than those mentioned in 11 01 13
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 03	**off-specification batches and unused products**
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 06	organic wastes other than those mentioned in 16 03 05
16 05	**gases in pressure containers and discarded chemicals**
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 08	**spent catalysts**
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 08 04	spent fluid catalytic cracking catalysts (except 16 08 07)
16 10	**aqueous liquid wastes destined for off-site treatment**
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01

Table S2.4 Permitted waste types and quantities for recovery of solvents from non-hazardous waste (AR16)	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
16 10 04	aqueous concentrates other than those mentioned in 16 10 03
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 03	**bituminous mixtures, coal tar and tarred products**
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 04	**vitrified waste and wastes from vitrification**
19 04 04	aqueous liquid wastes from vitrified waste tempering
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**separately collected fractions (except 15 01)**
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27

Table S2.5 Permitted waste types and quantities for temporary storage of non-hazardous wastes (AR17).	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
02 03	**wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing, conserve production, yeast and yeast extract production, molasses preparation and fermentation**
02 03 02	wastes from preserving agents
02 03 03	wastes from solvent extraction
02 07	**wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)**
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 03	wastes from chemical treatment
03	**WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD**
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 02	green liquor sludge (from recovery of cooking liquor)
03 03 05	de-inking sludges from paper recycling

Table S2.5 Permitted waste types and quantities for temporary storage of non-hazardous wastes (AR17).	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
04	**WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES**
04 02	**wastes from the textile industry**
04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16
05	**WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL**
05 01	**wastes from petroleum refining**
05 01 16	sulphur-containing wastes from petroleum desulphurisation
05 01 17	bitumen
07	**WASTES FROM ORGANIC CHEMICAL PROCESSES**
07 01	**wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals**
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
08	**WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS**
08 01	**wastes from MFSU and removal of paint and varnish**
08 01 12	waste paint and varnish other than those mentioned in 08 01 11
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13
08 01 16	aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 01 20	aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
08 03	**wastes from MFSU of printing inks**
08 03 07	aqueous sludges containing ink
08 03 08	aqueous liquid waste containing ink
08 03 13	waste ink other than those mentioned in 08 03 12
08 03 15	ink sludges other than those mentioned in 08 03 14
08 03 18	waste printing toner other than those mentioned in 08 03 17
10	**WASTES FROM THERMAL PROCESSES**
10 01	**wastes from power stations and other combustion plants (except 19)**
10 01 25	wastes from fuel storage and preparation of coal-fired power plants
11	**WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS, NON-FERROUS HYDRO-METALLURGY**
11 01	**wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)**
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11
11 01 14	degreasing wastes other than those mentioned in 11 01 13
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 03	**off-specification batches and unused products**

Table S2.5 Permitted waste types and quantities for temporary storage of non-hazardous wastes (AR17).	
Maximum quantity	The maximum throughput for all waste treatment/storage activities (AR1, AR10, AR16 and AR17) shall not exceed 70,000 tonnes per annum.
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 06	organic wastes other than those mentioned in 16 03 05
16 05	**gases in pressure containers and discarded chemicals**
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 08	**spent catalysts**
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 08 04	spent fluid catalytic cracking catalysts (except 16 08 07)
16 10	**aqueous liquid wastes destined for off-site treatment**
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01
16 10 04	aqueous concentrates other than those mentioned in 16 10 03
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 03	**bituminous mixtures, coal tar and tarred products**
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 02	**wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 04	**vitrified waste and wastes from vitrification**
19 04 04	aqueous liquid wastes from vitrified waste tempering
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**separately collected fractions (except 15 01)**
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter (Note 1)**	**Limit (including unit)**	**Reference Period**	**Monitoring frequency (Note 2)**	**Monitoring standard or method**
A1 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Emissions from solvent treatment and chemical production in the process building 1 shown in Schedule 7 abated using wet scrubber.	Total Volatile Organic Compounds (TVOCs)	30 mg/m3 (expressed as carbon) (Note 3).	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 5)	BS EN 12619
		Speciated Volatile Organic Compounds (Note 4)	No limit set.			PD CEN/TS 13649
A2 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Emissions from solvent treatment and chemical production in the process building 2 shown in Schedule 7 abated using thermal oxidiser.	Total Volatile Organic Compounds (TVOCs)	20 mg/m3 (expressed as carbon)	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 5)	BS EN 12619
		Speciated Volatile Organic Compounds (Note 4)	No limit set.			PD CEN/TS 13649
		Carbon monoxide	50 mg/m^3		Every 12 months	ISO 12039
A3 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Emissions from solvent treatment and chemical production in the process building 2 in Schedule 7 abated using atmospheric absorber stack (emissions from vessels SS3, SS9 & SS15 can be sent via the atmospheric absorber stack or the thermal oxidiser)	Total Volatile Organic Compounds (TVOCs)	30 mg/m3 (expressed as carbon) (Note 3).	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months (Note 5)	BS EN 12619
		Speciated Volatile Organic Compounds (Note 4)	No limit set.			PD CEN/TS 13649
A4 [as shown in Figure 2, Schedule 7 and 'revised emission points	Standby boiler fuelled on gas oil (1.36MWth)	No parameters set	No limit set	-	-	Permanent sampling access not required

plan' dated 25/04/2025]						
A5 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Boiler fired on gas oil and processed boiler fuel (3.86MWth)	No parameters set	No limit set	-	-	Permanent sampling access not required
A6 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Hot furnace burners fired on gas oil	No parameters set	No limit set	-	-	-
A7 to A9 [In process building 2 shown in Figure 2, Schedule 7 see also 'Site Plan' submitted under EPR/RP3531LP/V012 dated 26/02/2024]	Vents from 3 storage tanks located in process building 2.	No parameters set	No limit set	-	-	-
A10 to A13 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Vents from 4 storage tanks VT4 to VT7. in BIP Organics Bund E	No parameters set	No limit set	-	-	-
A14 to A21 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Vents from 8 storage tanks VT8 to VT15 in BIP Organics Bund A	No parameters set	No limit set	-	-	-
A22 to A24 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Vents from 3 storage tanks VT16A, VT17 and VT18 in BIP Organics Bund B	No parameters set	No limit set	-	-	-
A25 to A27 [as shown in Figure 2, Schedule 7 and 'revised emission points	Vents from 3 storage tanks VT19 to VT21 in BIP Organics Bund E	No parameters set	No limit set	-	-	-

plan' dated 25/04/2025]						
A28 to A30 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Vents from 3 storage tanks VT22 to VT24 in BIP Organics Bund B	No parameters set	No limit set	-	-	-
A31 to A42 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Vents from 12 storage tanks VT25 to VT36 in BIP Organics Bund F	No parameters set	No limit set	-	-	-
A43 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Vent from boiler fuel storage tank VT37	No parameters set	No limit set	-	-	-
A44 to A53 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Vents from 10 storage tanks VT38 to VT47 in BIP Organics Bund C	No parameters set	No limit set	-	-	-
A56 to A67 [Process building 2 shown in Figure 2, Schedule 7 see also 'Site Plan' submitted under EPR/RP3531LP/V012 dated 26/02/2024]	Pressure release valves (emergency use only) from vessels in the Process building 2	No parameters set	No limit set	-	-	-
A68 to A70 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Vents from storage tanks OT1, OT2 and OT3	No parameters set	No limit set	-	-	-
A71 to A78, A81 to A86 [as shown in Figure 2,	Vents from 14 storage tanks BC1 to BC8 and C1 to C6 in	No parameters set	No limit set	-	-	-

Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Centec Main Tank Farm Bund next to storage area 1.					
A87 [as shown in Figure 2, Schedule 7 and 'revised emission points plan' dated 25/04/2025]	Extraction filter from loading of raw materials into resin production vessel.	No parameters set	No limit set	**-**	**-**	**-**
LFO Tank [as shown in Figure 2, Schedule 7]	Vent from gas oil storage tanks 1 and 2.	No parameters set	No limit set	-	-	-

Note 1: In addition the operator shall also monitor for relevant waste gas parameters as required: flow, temperature, average concentration/load values of relevant substances (e.g. organic compounds, POPs such as PCBs) flammability, lower and upper explosive limits, reactivity and other substances which may affect gas treatment or plant safety (e.g. oxygen, nitrogen, water vapour, dust).

Note 2: To the extent possible, the measurements shall be carried out at the highest expected emission state under normal operating conditions.

Note 3: This limit does not apply if there are no carcinogenic, mutagenic or toxic for reproduction (CMR) substances present in the emission and the emission load is below 2 kg/h at the emission point.

Note 4: All speciated VOCs and their concentrations shall be reported.

Note 5: Monitoring frequencies may be reduced with the written agreement of the Environment Agency if emission levels are proven to be sufficiently stable

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter (Note 1)	Limit (incl. unit)	Reference Period (Note 2)	Monitoring frequency	Monitoring standard or method
W1	Uncontaminated surface water run-off	Oil or grease	None visible	-	Daily	Visual assessment
W2	Uncontaminated run-off from building rooftop via sealed downpipe	None	-	-	-	-

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter (Note 1)	Limit (incl. unit)	Reference period (Note 1)	Monitoring frequency	Monitoring standard or method
S1 – emission point S1 on site plan in schedule 7 – emission to United Utilities	Surface water run off including from bunded areas, boiler blowdown	Oil and Grease	None visible	-	Daily	Visual assessment

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter (Note 1)**	**Limit (incl. unit)**	**Reference period (Note 1)**	**Monitoring frequency**	**Monitoring standard or method**
Middlewich Wastewater Treatment Works.	and blowdown from cooling towers to foul sewer.					
Note 1: To the extent possible, the measurements shall be carried out at the highest expected emission state under normal operating conditions.						

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other Specifications**
Fugitive emissions from all sources identified in the Leak Detection and Repair (LDAR) programme as agreed under IC19	VOCs	Annually	sniffing method (BS EN 15446) or optical gas imaging	Diffuse emissions from all sources identified in the Leak Detection and Repair (LDAR) programme
Carbon filters serving vented solvent storage tanks.	Efficiency assessment	As specified in the agreed abatement plan to be established under ICI7a.	The abatement (e.g. carbon filters) must be maintained, operated and replaced in accordance with the manufacturer's recommendations and within the agreed abatement plan outlined in IC17a.	-
The Operator shall ensure that the operational temperature of the thermal oxidiser is not less than 850 ^{0}C via release point A2 using thermal oxidation	Temperature	Continuous	Not applicable	--

Table S3.5 ambient air monitoring requirements				
Location or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Locations as agreed under IC19	VOCs	Annually	As other specifications	One or a combination of: i) measurement using sniffing methods - optical gas imaging,

Table S3.5 ambient air monitoring requirements				
Location or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
			BS EN15446 for sniffing method	solar occultation flux or differential absorption ii) calculation of emissions based on emission factors (validated every 2 years) by measurement iii) mass balance using solvent input, point source emissions to air and water, solvent in process output and process residues

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**	**First period begins**
Emissions to air Parameters as required by condition 3.5.1.	A1, A2, A3.	Every 6 months	1 January
Process monitoring Parameters as required by condition 3.5.1	Thermal oxidiser, abatement system (as agreed under IC17a) and fugitive emissions of VOCs (as agreed under IC19).	Annually	1 January
Ambient air monitoring Parameters as required by condition 3.5.1	As agreed under IC19	Annually	1 January

Table S4.2 Annual production/treatment	
Parameter	**Units**
Hazardous waste treated - Recovery	tonnes
Non-hazardous waste treated - Recovery	tonnes
Production of polyester resins	tonnes
Production of chemicals under MPP	tonnes
End of waste produced	tonnes

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	cubic metres
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Effluent disposed via sewer	Annually	tonnes
Effluent tankered off-site	Annually	tonnes

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Emissions to air	Emissions to Air Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Emissions to sewer	Emissions to Sewer Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Water usage	Water Usage Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Energy usage	Energy Usage Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021
Other performance indicators	Other Performance Parameters Reporting Form: version 1 or other form as agreed in writing by the Environment Agency	08/03/2021

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	
Name of operator	
Location of Facility	
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	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
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 breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) 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

Use the following as needed – black is general use, red is potential use (if the site does not do activity then delete)

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

“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.

“authorised officer” means any person authorised by the Environment 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.

“blending or mixing” is the combination of wastes (other than repackaging) of the same general type (for example non-halogenated solvents or acids) having similar characteristics, in a container or bulk vessel or tank, where there is neither reaction of the mixed wastes nor evolution of gas.

“building” is a covered structure enclosed on all vertical sides that provides sheltered cover and contains emissions of, for example, noise, particulate matter, odour and litter.

“CMR” means substances that are carcinogenic, mutagenic or toxic for reproduction in accordance with UK REACH, that is substances with classifications category 1A H340, H350, H360, category 1B H340, H350, H360, category 2 H341, H351, H361.

“container” is a receptacle for waste for example bags, bins, boxes, drums, IBCs and blister packs. Wastes may be packaged in more than one receptacle for example a bag in a box.

“D” means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on Waste.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

“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 these standard rules or from other localised or diffuse sources, which are not controlled by an emission or background concentration limits.

“emissions to land” includes emissions to groundwater.

“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.

“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.

“hazardous property” has the meaning in Annex lll of the Waste Framework Directive.

“hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005.

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

“Industrial Emissions Directive” means Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on

waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“Leak detection and repair (LDAR) programme’’ means a structured approach to reduce fugitive emissions of organic compounds by detection and subsequent repair or replacement of leaking components. Currently, sniffing (described by EN 15446) and optical gas imaging methods are available for the identification of leaks under BAT 14 and section 6.2 of the Waste Treatment BAT Conclusions, Aug 2018.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“Medium Combustion Plant” or ”MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“pests” means birds, vermin and insects.

“pollution” includes pollution of the environment, harm to human health and serious detriment to the amenities of the locality, resulting from the permitted activities.

“POPs” means persistent organic pollutants, which are the substances listed in Annexes I and II of the retained Regulation (EU) 2019/1021 as amended by The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020/1358 and The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2022/1293.

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

“R” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on Waste.

“recovery” means any of the operations provided for in Annex II to the Waste Framework Directive.

“sealed container” for the purposes of this permit, means a container which is fully enclosed, weather proof, does not allow any solid or liquid content to escape and is lockable.

“sealed drainage” in relation to an impermeable surface means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquid will run off the surface otherwise than via the system, and
- except where they may lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump

“volatile organic compound” (VOC) means any organic compound as well as the fraction of creosote, having at 293.15 K a vapour pressure of 0.01 kPa or more, or having a corresponding volatility under the particular conditions of use.

“waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

‘waste oils’ means any mineral or synthetic lubrication or industrial oils which have become unfit for the use for which they were originally intended, such as used combustion engine oils and gearbox oils, lubricating oils, oils for turbines and hydraulic oils.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“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:

- 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
- 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.

When the following terms appear in the waste code list in Schedule 2, table 2.2 to 2.5, for those tables, they have the meaning given below:

“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

“PCBs” means.

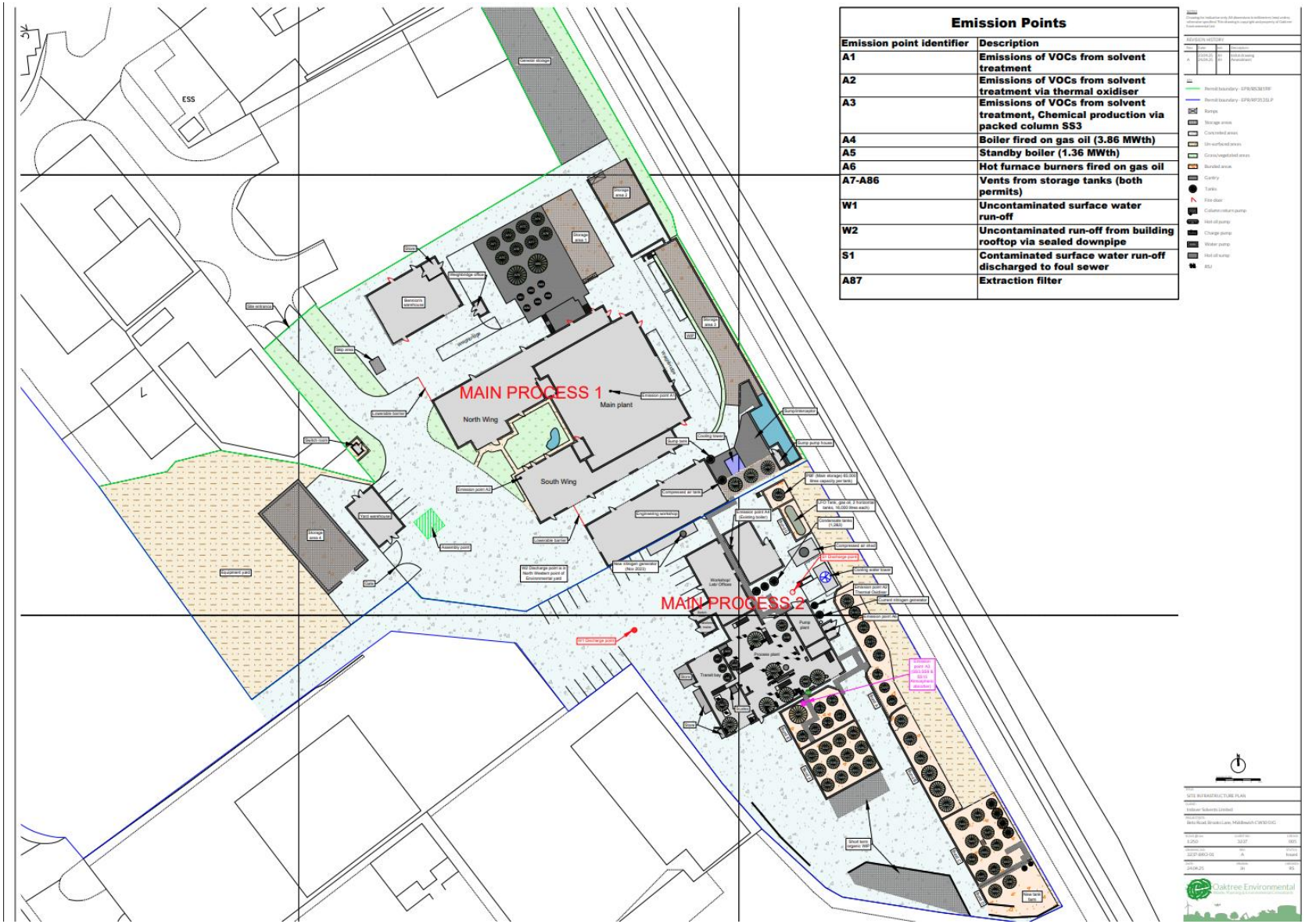
- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0.005% by weight.

“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances.

Schedule 7 – Site plan

Figure 1: Site location and permit boundary

Figure 2: **Site Layout Plan including emission points**



Emission Points	
Emission point identifier	**Description**
A1	**Emissions of VOCs from solvent treatment**
A2	**Emissions of VOCs from solvent treatment via thermal oxidiser**
A3	**Emissions of VOCs from solvent treatment, Chemical production via packed column SS3**
A4	**Boiler fired on gas oil (3.86 MWth)**
A5	**Standby boiler (1.36 MWth)**
A6	**Hot furnace burners fired on gas oil**
A7-A86	**Vents from storage tanks (both permits)**
W1	**Uncontaminated surface water run-off**
W2	**Uncontaminated run-off from building rooftop via sealed downpipe**
S1	**Contaminated surface water run-off discharged to foul sewer**
A87	**Extraction filter**

END OF PERMIT