

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Industrial Chemicals Limited

Cold Mill Effluent Treatment Plant
Port Talbot Steelworks
Port Talbot
SA13 2NG

Permit number
EPR/AB3192HQ

Cold Mill Effluent Treatment Plant

Permit number EPR/AB3192HQ

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The Cold Mill Effluent Treatment Plant (ETP) treats effluent (ferrous chloride solution) from the cold rolled steel pickling process.

Ferrous chloride solution (FCS) is received from TATA Steel's three FCS holding tanks into two pumps. These pumps transfer the ferrous chloride solution along a transfer line to the FCS neutralisation tank where calcium hydroxide slurry is added. This process neutralises the FCS, producing a slurry of calcium chloride and ferrous hydroxide. This slurry is continually pumped via effluent transfer lines into two large sludge holding tanks. The pH of the slurry is monitored and adjusted (if necessary) to maintain an optimum alkaline pH of between 8 and 9 to ensure that all of the iron in the solution is precipitated out to form solid ferrous hydroxide.

Once precipitation is complete the slurry is filtered in two filter presses to remove the ferrous hydroxide which is formed into press cakes. These are removed off-site to TATA Steel's landfill site. The remaining liquid calcium chloride solution is transferred off-site via pipeline to TATA Steel's main effluent treatment plant for further treatment, either directly via the Cold Mill's basement neutralisation tank, or being first treated in a clarifier before being transferred to the basement neutralisation tank. Oily sludge is collected at the bottom of the sludge holding tanks and removed via an oily sludge transfer line off site for treatment in TATA Steel's decanter and flotation tank before being transferred to the basement neutralisation tank.

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

Status log of the permit		
Description	Date	Comments
Application received BL7108IM	Duly made 31/08/01	Application for Integrated Steelworks at Port Talbot
Permit determined BL7108IM	31/03/04	Original permit issued to Corus UK Limited
Variation determined AP3330BE (BL7108IM/V002)	08/11/04	LCPD requirements
Application RP3730BV	Duly made 17/09/04	Changes made in order to maximise production capacity
Variation determined RP3730BV (BL7108IM/V003)	20/02/05	
Application PP3837SQ	Duly made 27/07/05	Trials for use of waste oils in boilers and new monitoring standards
Variation determined BP3933LD	01/10/05	Improvements to reduce the release of kish

(BL7108IM/V004)		
Variation determined FP3935LM (BL7108IM/V005)	03/02/06	Improvement to categorising of complaints
Variation determined PP3837SQ (BL7108IM/V006)	12/05/06	Time limited variation issued
Variation determined TP3139XJ (BL7108IM/V007)	21/12/07	NERP requirements implemented
Variation determined EPR/BL7018IM/V008	29/06/09	BOS gas recovery system introduced, new quench and cooling towers plus lignite injection
EA variation determined EPR/BL7018IM/V009	09/08/10	Changes following Port Talbot Steelworks permit review (PM ₁₀)
Variation determined EPR/BL7108IM/S010	19/11/10	Partial surrender of land. Amended site plan. Operator name change to Tata Steel UK Limited
EA variation determined EPR/BL7108IM/V011	02/02/12	Variation to address Article 10 of the IPPC Directive in relation to air quality
Application EPR/BL7108IM/V012	Duly made 16/04/12	Application for blast furnace 4 rebuild. BOS off-gas recovery, COG triple flare stack replacement
Variation determined EPR/BL7108IM/V012	12/07/12	Varied permit issued
NRW variation determined EPR/BL7108IM/V013	12/06/13	Variation to implement the changes introduced by IED
Regulation 60(1) Notice of request for more information	06/06/13	Implementation of BAT conclusions under IED
Regulation 60 (1) response	27/09/13	Response received from Tata Steel UK Limited
NRW Variation and consolidation determined EPR/BL7108IM/V014	20/04/15	Varied and consolidated permit issued.
Application EPR/BL7108IM/V015	Duly Made 05/06/15	Application to upgrade internal energy generation plant (The Power Plant). Reinstatement of the Minister Stein hood outage condition.
Variation determined	08/02/15	Varied and consolidated permit issued.
Application PAN-000178 (EPR/BL7108IM/T001) received (part transfer of permit EPR/BL7108IM)	Duly Made 22/12/15	Application to transfer Cold Mill effluent lines, effluent treatment plant and discharge line to Industrial Chemicals Limited.
Additional information requested	22/12/15	Details of process, emission points, storage of raw materials and wastes and control of installation requested.
Additional information received	09/02/16	Description of process.

Additional information received	12/02/16	EPOC certificate.
Additional information received	08/03/16	Confirmation that there are no emission points to air associated with the effluent treatment plant.
Additional information received	11/04/16	Description of process and further site plans.
Additional information requested	10/06/16	Operating techniques and procedures
Additional information received	28/06/16	New EMS procedures incorporating operating techniques received
Additional information received	29/06/15	Emergency plan received
Part Transfer (New Operator) determined PAN-000178 (EPR/BL7108IM/T001) Permit number: EPR/AB3192HQ	04/07/16	Part transfer of effluent lines, effluent treatment plant and discharge line to Industrial Chemicals Limited complete.
Regulation 61(1) Notice sent to the Operator	05/04/19	Issue of a Notice under Regulation 61(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for Waste Treatment.
Regulation 61(1) Notice response	02/10/19	Response received from the operator.
Additional information received	07/05/20	Additional information on BAT received from the operator.
Natural Resources Wales Initiated Variation determined EPR/AP3192HQ/V002	15/03/21	Varied and consolidated permit issued.

Other Part A installation permits relating to this installation

Operator	Permit number	Date of issue
Harsco Metals Group Ltd	EPR/BP3635MR	30/10/2006
Cambrian Stone Ltd	EPR/BL5636IF	24/12/2002
Tata Steel UK Ltd (Hazardous landfill)	EPR/BW2692IM	17/12/2004
Tata Steel UK Ltd (Non-hazardous landfill)	EPR/BV7311IE	17/12/2004
Tata Steel UK Ltd	EPR/BL7108IM	31/03/2004
Runtech Ltd	EPR/AB3595FF	29/09/2017

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/AB3192HQ

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/AB3192HQ/V002 authorising,

Permit number

EPR/AB3192HQ

issued to

Industrial Chemicals Limited ("the operator")

whose registered office is

Titan Works

Titan Industrial Estate

Hogg Lane

Grays

Essex

RM17 5DU

company registration number **03886037**

to operate an installation at

Cold Mill Effluent Treatment Plant

Port Talbot Steelworks

Port Talbot

SA13 2NG

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

Name	Date
Holly Noble	15/03/2021

Authorised on behalf of Natural Resources Wales

Conditions

1 Management

1.1 General management

- 1.1.1 The activities shall be managed and operated:
- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances and closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every 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.

1.5 Multiple operator installations

- 1.5.1 Where the operator notifies Natural Resources Wales under condition 4.3.2 (a) or 4.3.2 (c), the operator shall also notify without delay the other operator(s) of the installation of the same information.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 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 blue on the site layout plan at schedule 7a to this permit.
- 2.2.2 The activities shall not extend beyond the site, being the land shown edged in yellow on the multi-operator installation layout plan at schedule 7b to this permit, which is within the area edged in green on the multi-operator installation layout plan that represents the extent of the Industrial Chemicals Limited installation covered by this permit and those of the other operators of the Port Talbot Steelworks installation.

2.3 Operating techniques

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan specified in schedule 1, table S1.2 or otherwise required under this permit, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.3 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.2; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.4 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.
- 2.3.5 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 Natural Resources Wales.
- 2.5.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales 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 and S3.2.
- 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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.
- 3.2.3 All liquids, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary 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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales for approval within the period specified, a noise and vibration management plan;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.2.
- 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) unless otherwise agreed in writing by Natural Resources Wales.
- 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 and S3.2 unless otherwise agreed in writing by Natural Resources Wales.

4 Information

4.1 Records

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

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.

- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.3 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to Natural Resources Wales, 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 Natural Resources Wales 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 (a) In the event 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 Natural Resources Wales,
 - (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) in the event of a breach of any permit condition the operator must immediately—
- (i) inform Natural Resources Wales, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) in the event 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 conditions 4.3.1 (a)(i), or 4.3.1 (b)(i) 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 Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.

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

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

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

In any other case:

- (d) the death of any of the named operators (where the operator consists of more than one named individual);
- (e) any change in the operator's name(s) or address(es); and
- (f) 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) Natural Resources Wales shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.6 Natural Resources Wales 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 / Associated Activity	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	Section 5.3 Part A(1)(a)(ii)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	From receipt of ferrous chloride effluent from the Cold Mill Ferrous Chloride storage tanks to discharge of calcium chloride solution and oily sludge.

Table S1.2 Operating techniques

Description	Parts	Date Received
Part Transfer Application PAN-000178 (EPR/BL7108IM/T001)	Documents entitled: <ul style="list-style-type: none"> • 'Appendix D2 –Shared Operations'; • Email confirming provision of Technically Competent Person; • Certificates of Technical Competence for Technically Competent Person; and • 'Appendix 4b – technical ability' (version 2); submitted with the application in response to section 3a – technical standards, Part B of the application form 	22/12/15
Additional information	Document entitled 'Translation of Drawing – for NRW use' version 2.	09/02/16
Additional information	EPOC certificate for Claire Harling	12/02/16
Additional information	Document entitled 'Appendix D2 3c – Shared operations' Plans entitled 'TATA STEEL NEW PROPOSED AREA', '0405 Layout (old plant and new plant)' and '0405 Layout (old plant and new plant) (2)'	11/04/16
Additional information	Sections of document entitled 'Ondeo Operating Instructions for Cold Mill Effluent Plant Normal Conditions (ref. OP-POR-TS-ETP-0001)' which relate to ferrous chloride solution processing.	13/06/16
Additional information	Documents entitled: <ul style="list-style-type: none"> • 'Port Talbot Operating Procedures. PT-OP-001: Responding to Chemical Spills'; • 'Port Talbot Operating Procedures. PT-OP-003: Cleaning Ferrous Chloride solution pump filters'; • 'Port Talbot Operating Procedures. PT-OP-004: Ferrous Chloride Neutralisation and Processes'; • 'Port Talbot Operating Procedures. PT-OP-006: Basement Water System'. 	28/06/16
Additional information	Document entitled 'Port Talbot Cold Rolled Products. Local Emergency Plan'	29/06/16

Response to regulation 61(1) Notice – request for information dated 05/04/2019 detailing how the Operator will comply with the BAT conclusions for Waste Treatment, under Directive 2010/75/EU of the European Parliament and of the Council	All parts	02/10/2019
Additional information for regulation 61(1) Notice	RFI response part 1 RFI response part 2 RFI response part 3 RFI response part 4	07/05/2020

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC1	The Operator shall ensure that a member of staff employed by Industrial Chemicals Limited successfully obtains certification of technical competence (for example, by successfully completing the WAMITAB Level 4 qualification). The Operator shall supply copies of the award certificates to NRW to demonstrate competence.	Within one year of the issue of the permit
IC2	The operator shall submit a written report to Natural Resources Wales a written procedure(s) describing how operations on site which involve Tata Steel are managed. The report should include: <ul style="list-style-type: none"> Contractual agreement in place between ICL and Tata Steel. Detailing roles and responsibilities in relation to the Cold Mill Effluent Treatment Plant. 	Within 1 month of the issue of the permit
IC3	The operator shall submit to Natural Resources Wales a written procedure(s) describing how they intend to meet the following BAT requirements in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018): BAT 1 Environmental Management System: <ul style="list-style-type: none"> (VII) Following development of cleaner technologies (VIII) Whole life cycle considerations when designing a new plant i.e. impacts from eventual decommissioning and throughout its operating life (IX) Regular sectoral bench marking (X) Waste stream management (BAT 2) (XI) Inventory of waste water & waste gas streams (BAT 3) (XII) Residues Management Plan – S6.5 	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales
IC4	The operator shall submit to Natural Resources Wales a written procedure(s) describing how they intend to meet the following BAT requirements in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018): BAT 2 Improving overall environmental performance: <ul style="list-style-type: none"> (a) Set up and implement waste characterisation & pre-acceptance procedures (b) Set up and implement waste acceptance procedures (c) Set up and implement a waste tracking system & inventory (d) Set up and implement an output quality management system 	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales
IC5	The operator shall submit to Natural Resources Wales a written procedure(s) describing how they intend to meet the following BAT requirements in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018): BAT 3 (i) information about the characteristics of the waste to be treated and the waste treatment process including (b) description of process-	17 th February 2022 or otherwise agreed in writing with Natural Resources

	integrated techniques and waste/waste gas treatment at source including their performances (ii) Information about the characteristics of waste water streams. (iii) Information about the characteristics about waste gas streams	Wales
IC6	The operator shall submit to Natural Resources Wales a written procedure(s) describing how they intend to meet the following BAT requirements in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018): BAT 18 Techniques to prevent, or where not practicable reduce noise and vibration emissions.	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales
IC7	The operator shall submit to Natural Resources Wales a written procedure(s) describing how they intend to meet the following BAT requirements in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018): BAT 19 In order to optimise water consumption, reduce the volume of waste water generated and prevent or where not practicable reduce emissions to soil and water.	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales
IC8	The operator shall submit to Natural Resources Wales a written procedure(s) describing how they intend to meet the following BAT requirements in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018): BAT 23 Energy Efficiency: In order to use energy efficiently, BAT is to use both of the techniques below: <ul style="list-style-type: none"> • Energy Efficiency Plan. • Energy balance record. 	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales
IC9	Where your activity involves the use, production or release of relevant hazardous substances (as defined in Article 3(18) of the Industrial Emissions Directive) carry out a risk assessment considering the possibility of soil and groundwater contamination at the installation with these substances. Where any risk of such contamination is established either: <ul style="list-style-type: none"> • Prepare and submit a baseline report containing information necessary to determine the current state of soil and groundwater contamination; or <ul style="list-style-type: none"> • Provide a summary report referring to information previously submitted where you are satisfied that such information represents the current state of soil and groundwater contamination; so as to enable a quantified comparison to be made with the state of soil and groundwater contamination upon definitive cessation of activity. Where you have concluded that there are no risks of soil or groundwater contamination, provide a copy of the risk assessment. Please you also confirm that there are no discharges to surface waters and/or sewer from the site. This will help confirm that Request 7 of the Reg 61 Notice is not applicable.	17 th February 2022 or otherwise agreed in writing with Natural Resources Wales

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels

Raw materials and fuel description	Specification
Calcium hydroxide slurry	---

Table S2.2 Permitted waste types

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, phosphating, 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 dangerous substances
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 11*	aqueous rinsing liquids containing dangerous substances
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11
11 01 13*	degreasing wastes containing dangerous substances
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 01 15*	eluate and sludges from membrane systems or ion exchange systems containing dangerous substances
11 01 16*	saturated or spent ion exchange resins
11 01 98*	other wastes containing dangerous substances
11 01 99	wastes not otherwise specified

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including Unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1	Vapour from calcium chloride and ferrous chloride slurry	Sludge holding tank no. 1	No limit set	---	---	---
A2	Vapour from calcium chloride and ferrous chloride slurry	Sludge holding tank no. 2	No limit set	---	---	---

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1	Calcium chloride solution	Sludge holding tanks nos. 1 and 2	No limit set	---	---	---
S2	Calcium chloride solution	Filter presses nos. 1 and 2	No limit set	---	---	---
S3	Calcium chloride solution	Ferrous chloride pumps nos. 1 and 2	No limit set	---	---	---
S4	Oily sludge	Sludge holding tank no. 2	No limit set	---	---	---

Schedule 4 (a) – Reporting until 16th August 2022

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

Table S4.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
---	---	---	---

Table S4.2: Annual production/treatment

Parameter	Units
Ferrous chloride solution	tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	04/07/16
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	04/07/16
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	04/07/16
Waste subject to condition 4.2.5	Waste tonnage return forms available on Natural Resources Wales website	N/A

Schedule 4 (b) – Reporting effective from 17th August 2022

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

Table S4.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
---	---	---	---

Table S4.2: Annual production/treatment

Parameter	Units
Ferrous chloride solution	tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Generation of residues	Annually	Tonnes
Generation of waste water	Annually	m ³

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	04/07/16
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	04/07/16
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	17/08/22
Waste subject to condition 4.2.5	Waste tonnage return forms available on Natural Resources Wales website	N/A

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 activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified within 24 hours	
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 permit condition	
To be notified within 24 hours	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

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

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(c) In the event 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:

To be notified within 24 hours	
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 Industrial Chemicals Limited.

Schedule 6 - Interpretation

"*accident*" means an accident that may result in pollution.

"*annually*" means once every year.

"*Annex I*" means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"*Annex II*" means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"*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 Natural Resources Wales 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.

"*background concentration*" means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

"*BAT*" means Best Available Techniques. This means the most effective and advanced stage of development of activities and their methods of operation which indicates the practical suitability of particular techniques to prevent and where that is not practicable to reduce emissions and the impact on the environment as a whole. For these purposes: "available techniques" means "those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the operator"; "best" means "in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole" and "techniques" includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned".

"disposal" or "D" means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"emissions to land" includes emissions to groundwater.

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

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

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

"*ground water*" 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 III of the Waste Framework Directive

"*hazardous waste*" has the meaning given in the Hazardous Waste (Wales) Regulations 2005 (as amended)

"*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

"*Industrial Emissions Directive*" means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions.

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

“Monitoring” includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

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

“recovery or R” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

‘residue’ means the solid waste generated by the waste treatment activity and is not directly related to the type of waste treated in the plant

“Sewer” means the sewer within the meaning of section 219(1) of the Water Industry Act 1991.

“Waste code” means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Waste Treatment BAT Conclusions” means the BAT Conclusions for the Waste Treatment sector published as a Commission Implementing Decision EU 2018/1447 in the Official Journal of the EU on 17 August 2018

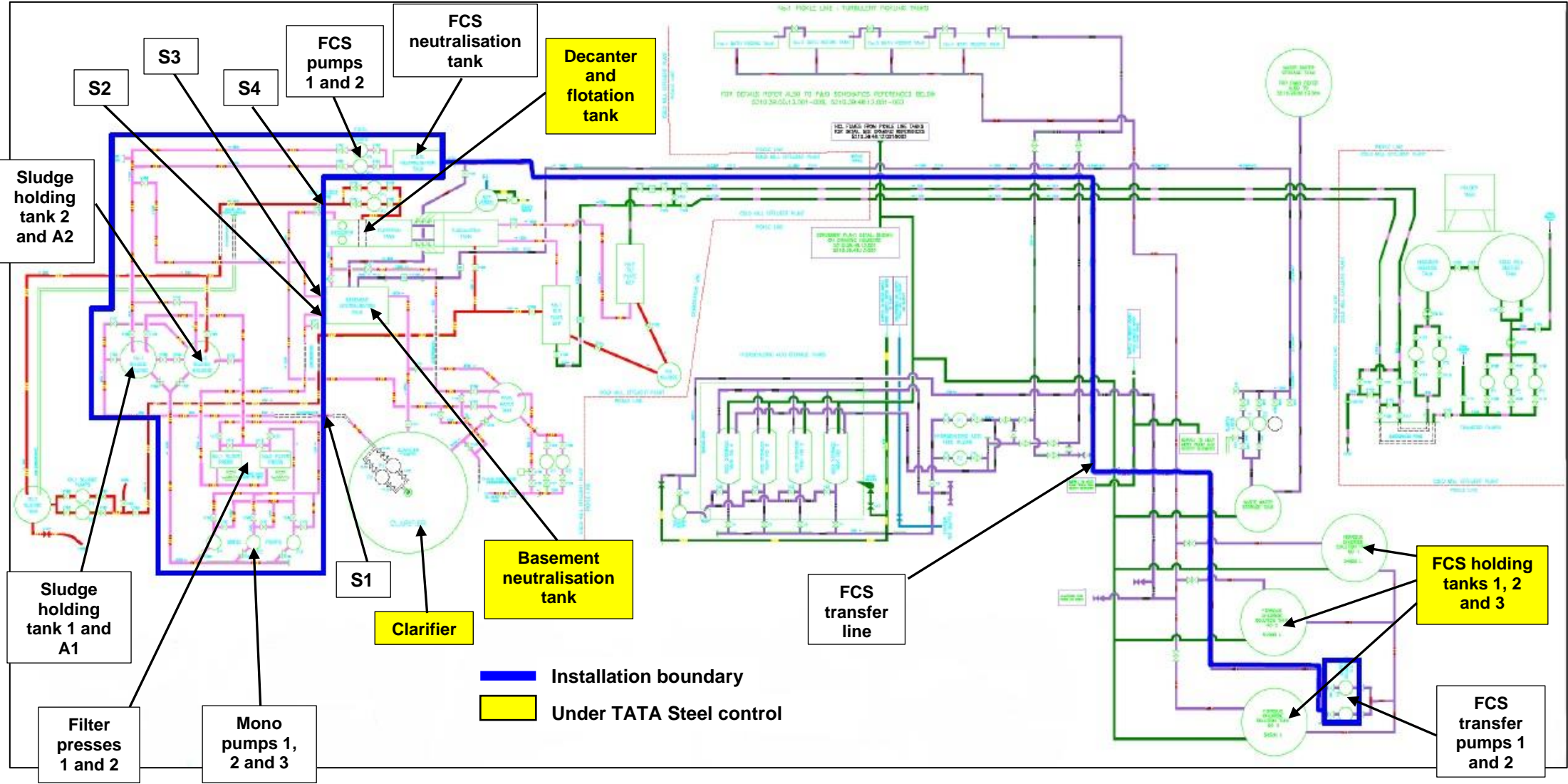
“Year” means calendar year ending 31 December.

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

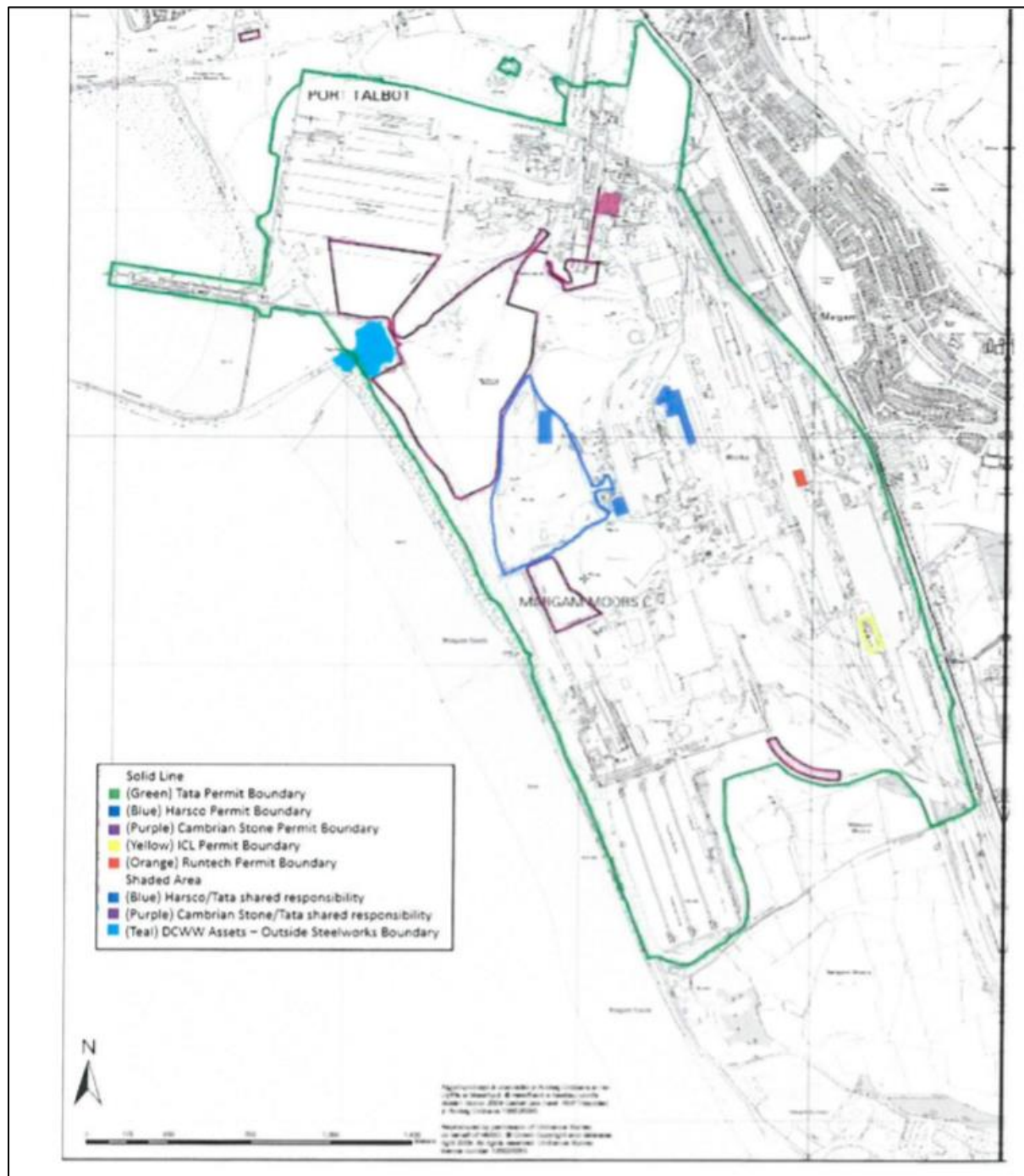
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Schedule 7a - Site layout plan



Schedule 7b – Multi-operator installation layout plan



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